

99 — B

FIG. 1

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300

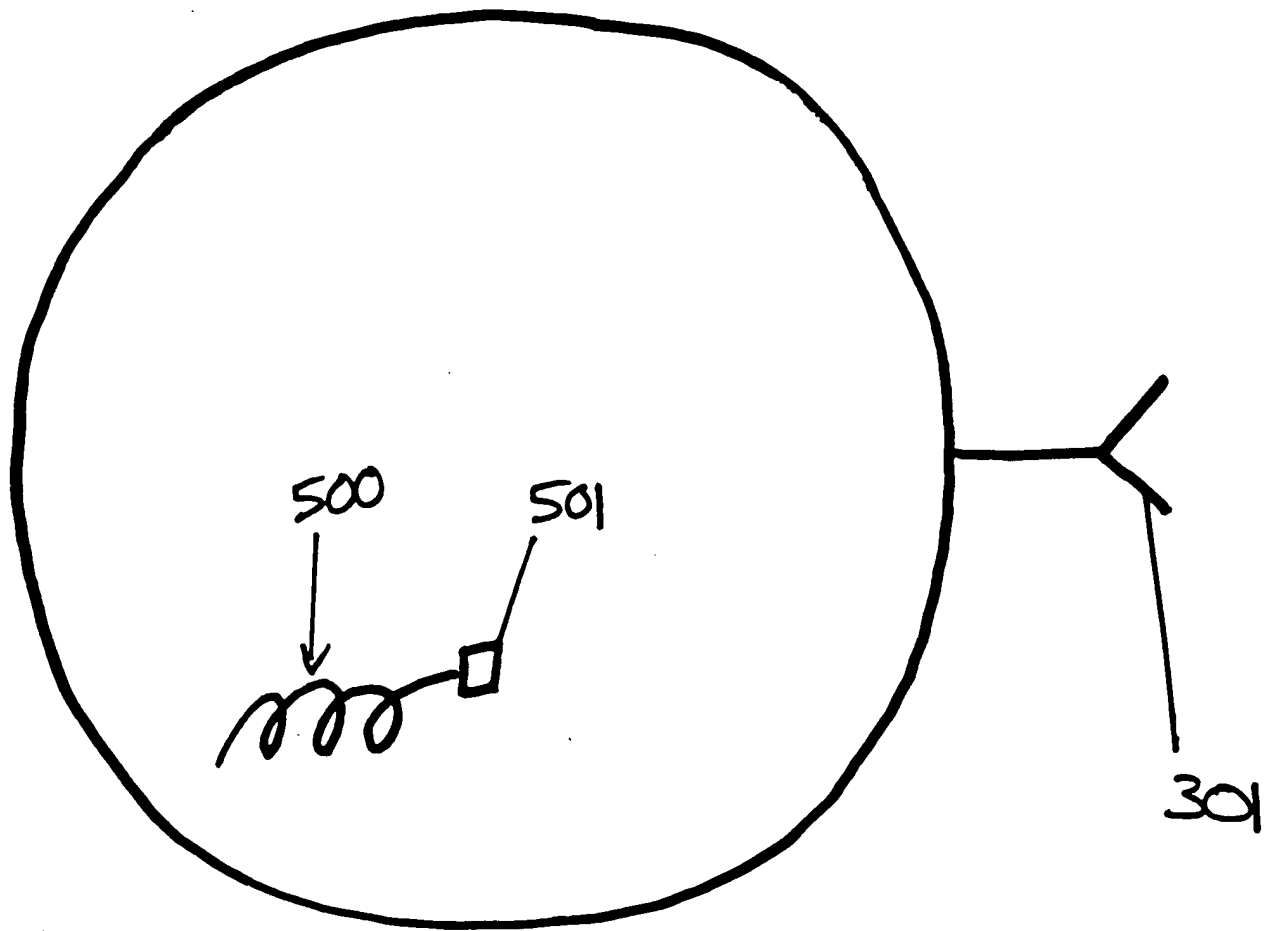
An arrow pointing downwards from the label 300 to the main circular structure.

FIG. 2



350

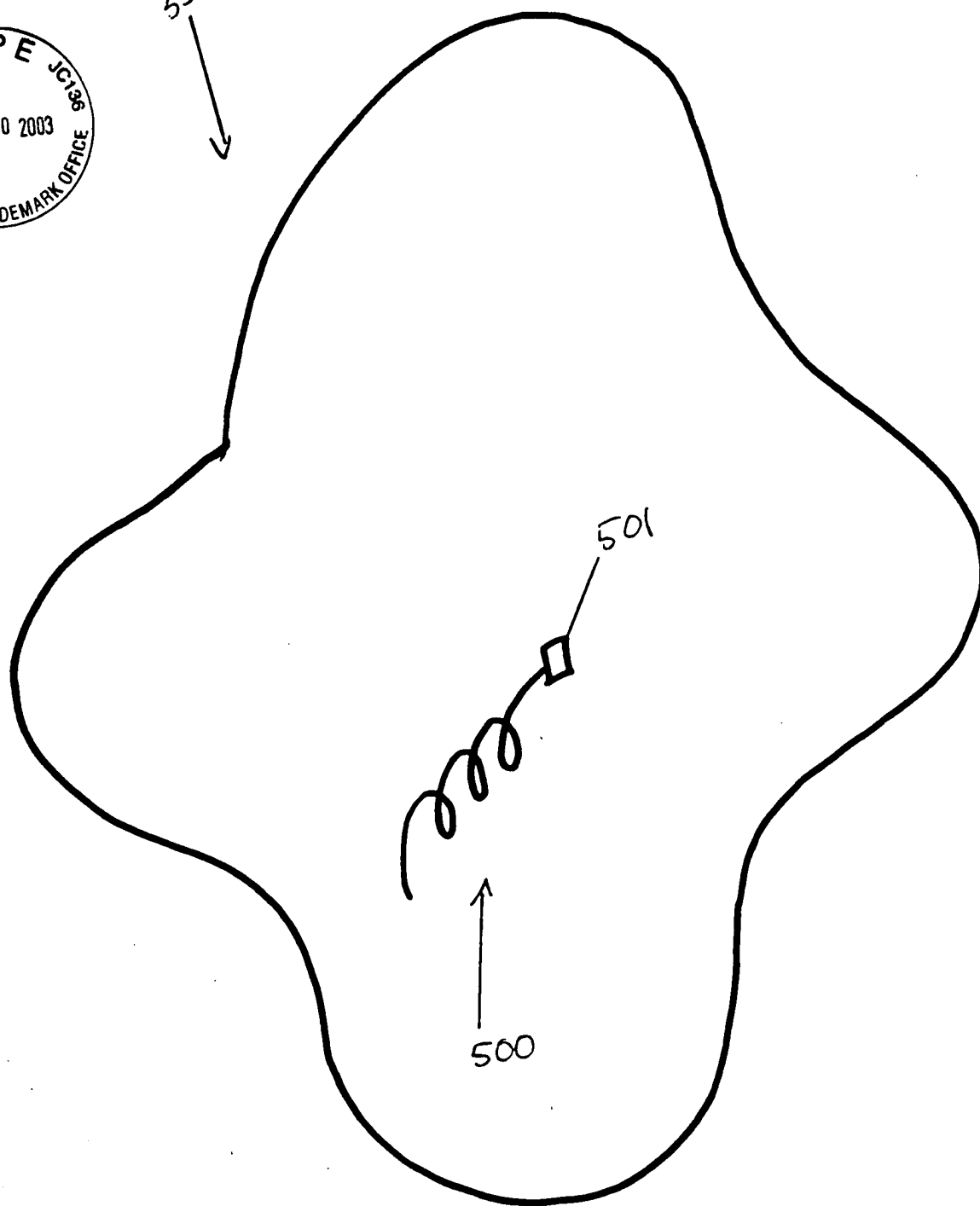
An arrow pointing from the label 350 to the main body of the device.

FIG. 3

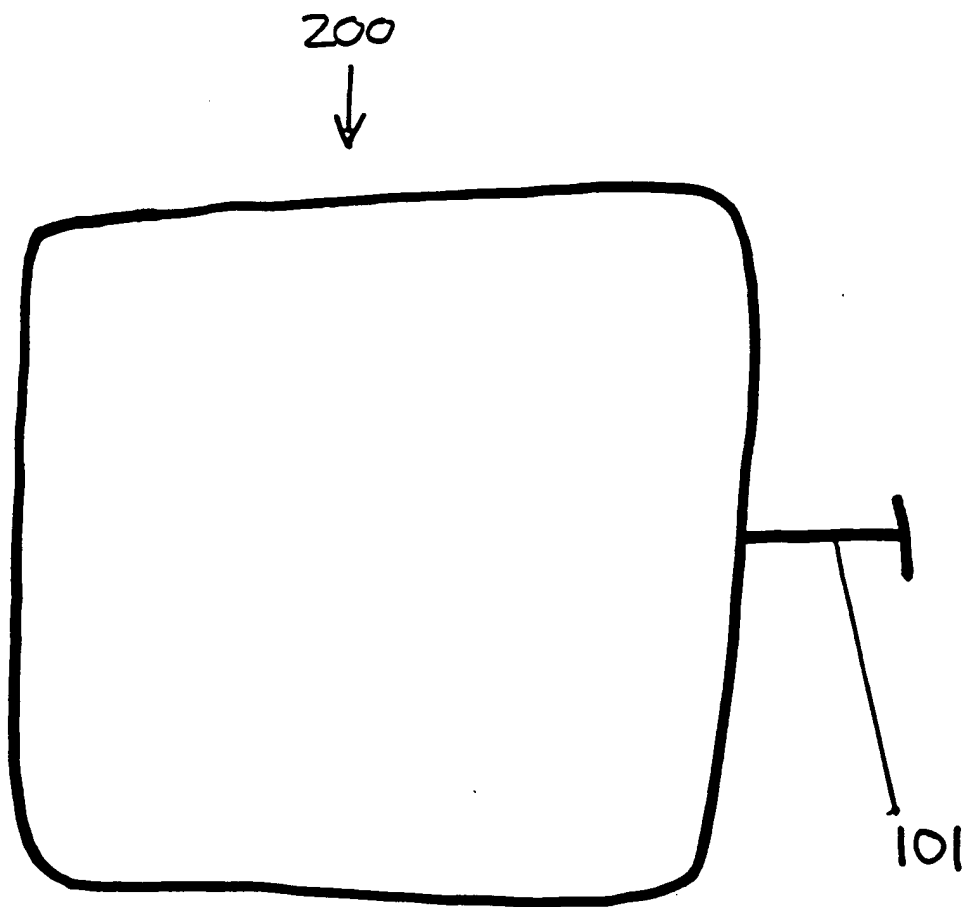


FIG. 4



149

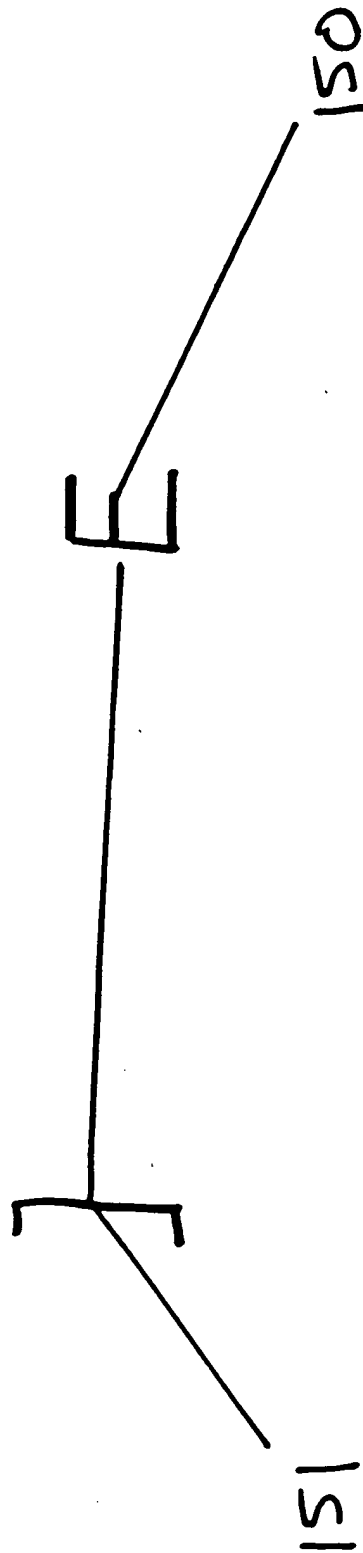
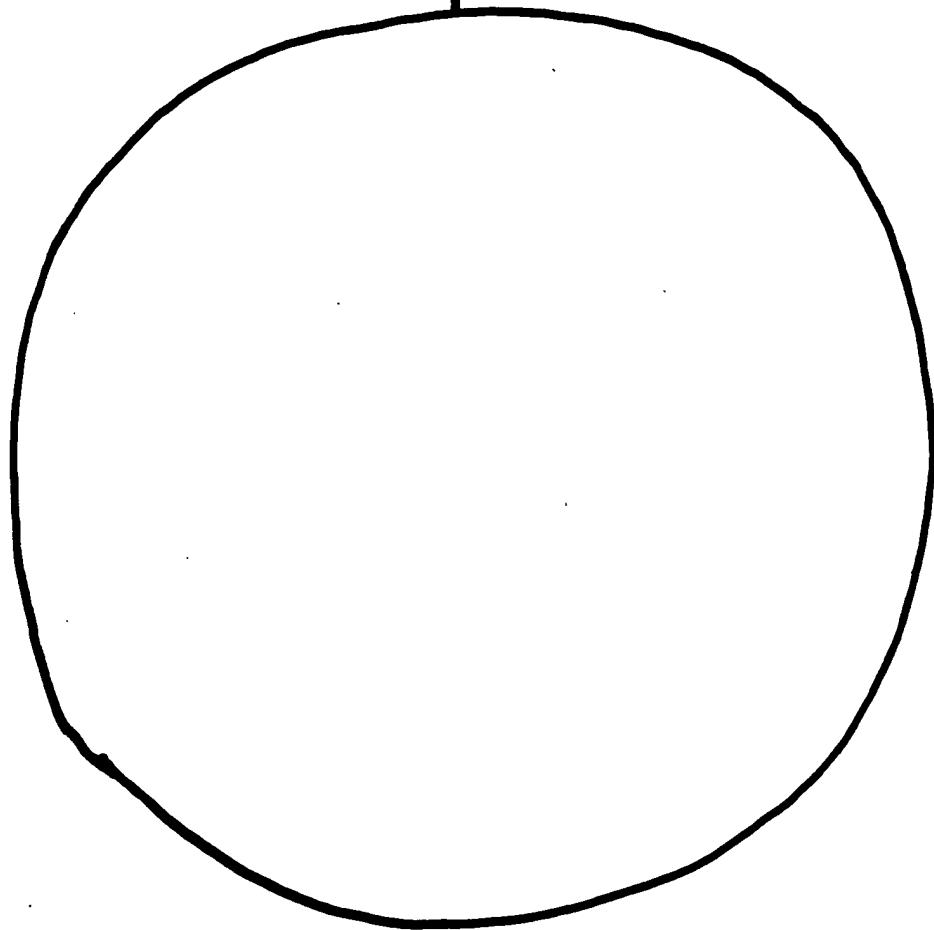


FIG. 5



190



149

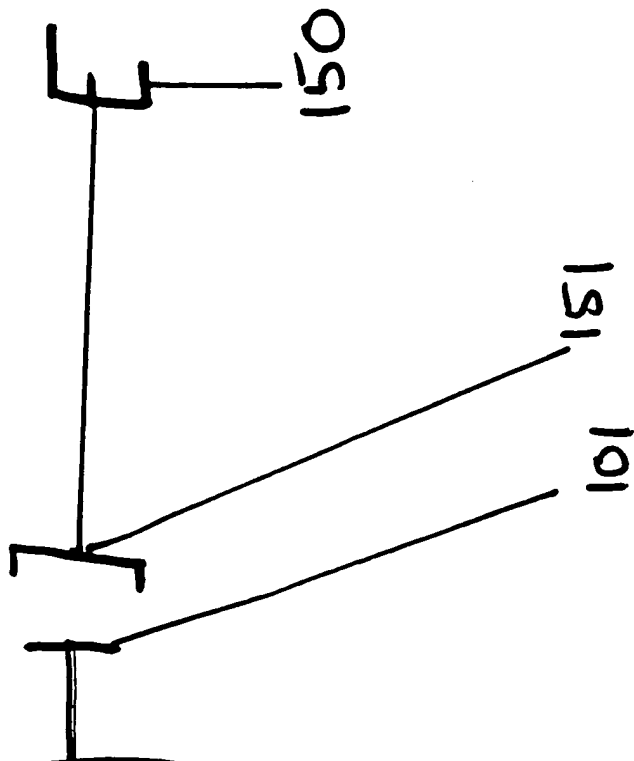


FIG. 6



200

149

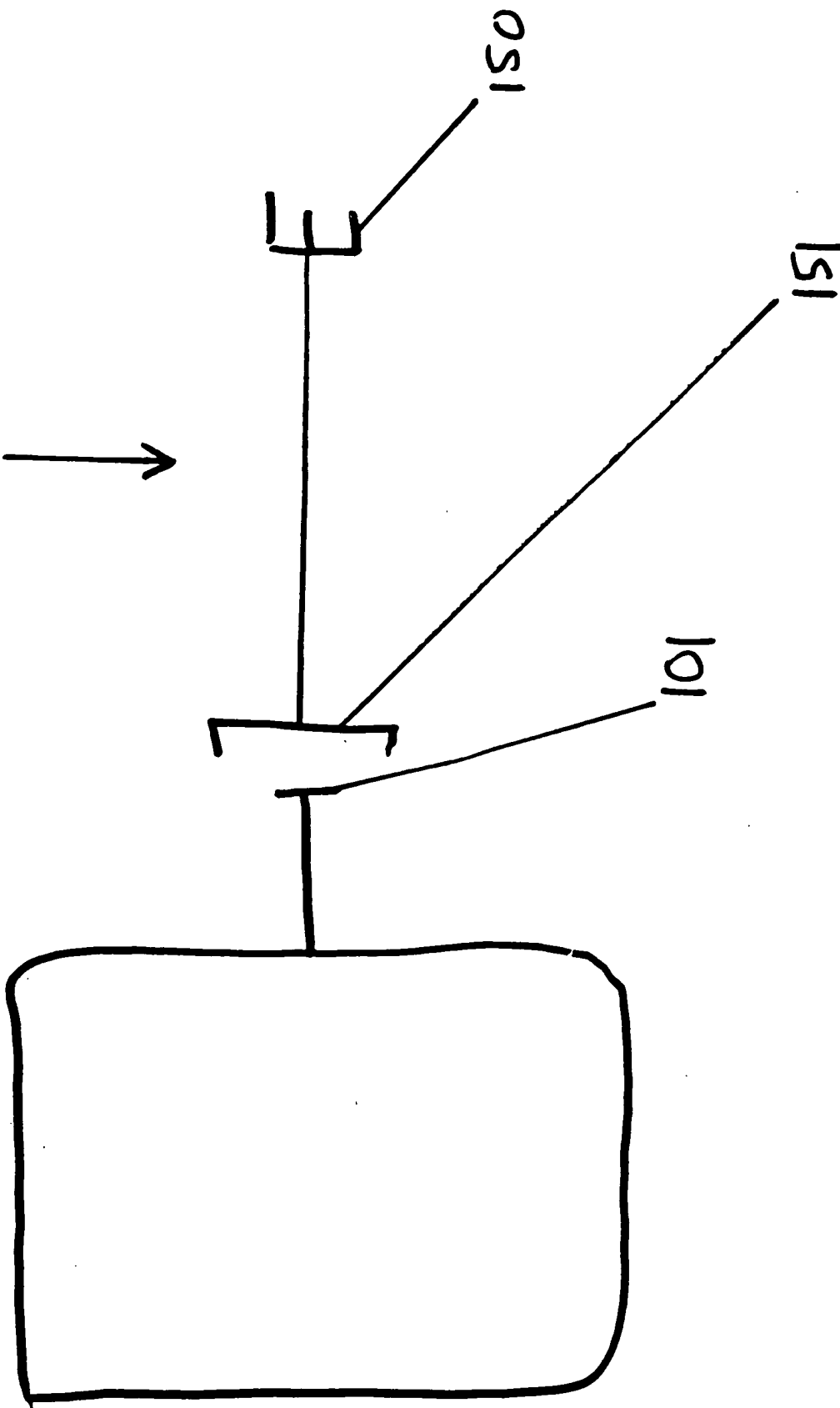


FIG. 7

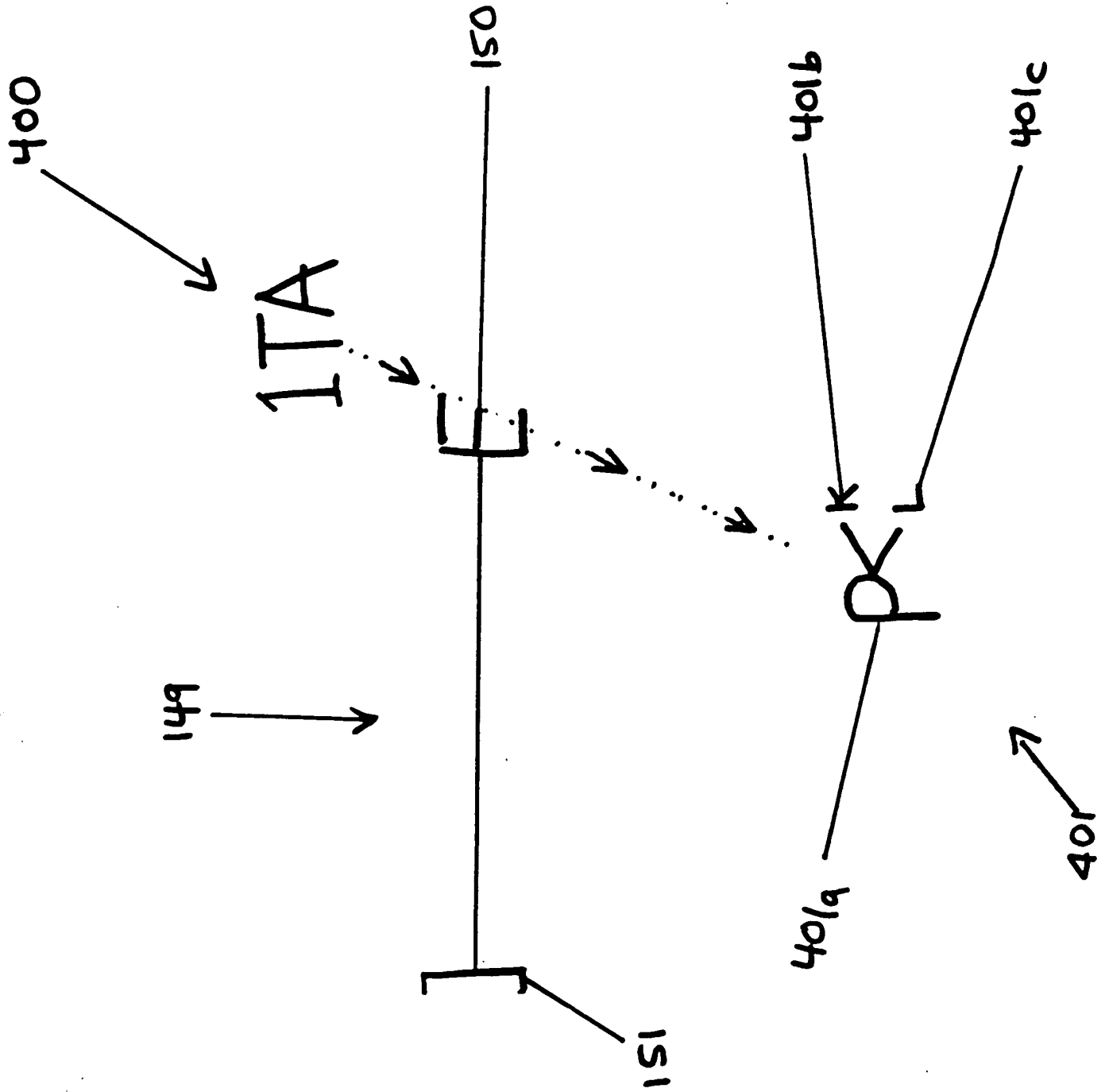


FIG. 8

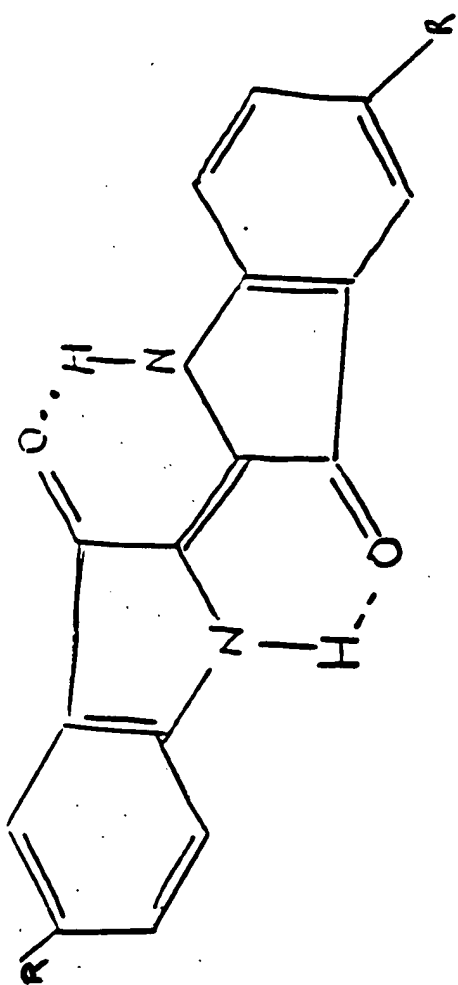


FIG. 9

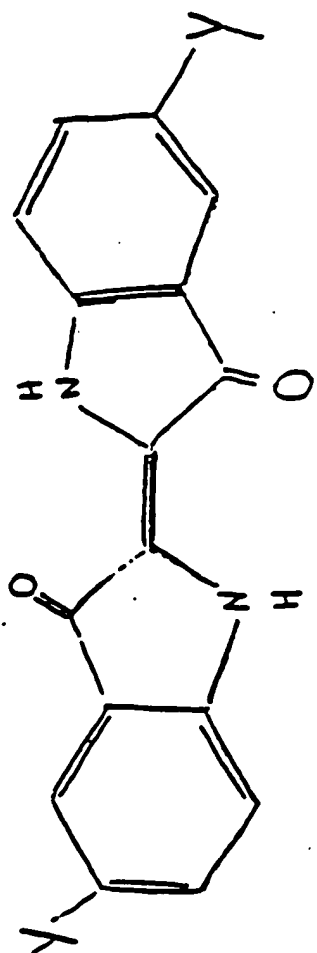


FIG. 10

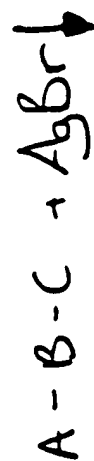
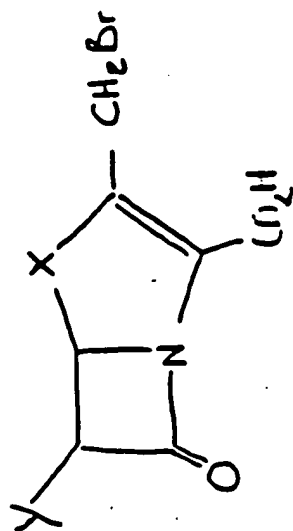
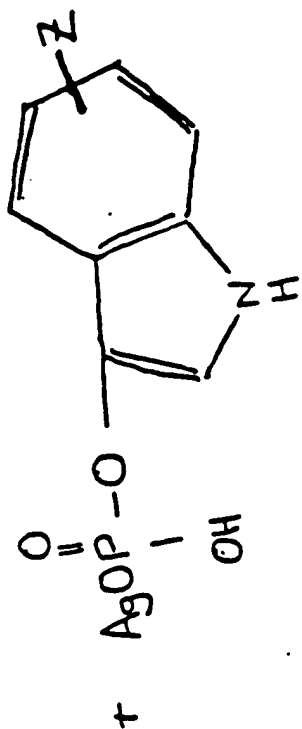


FIG. 11

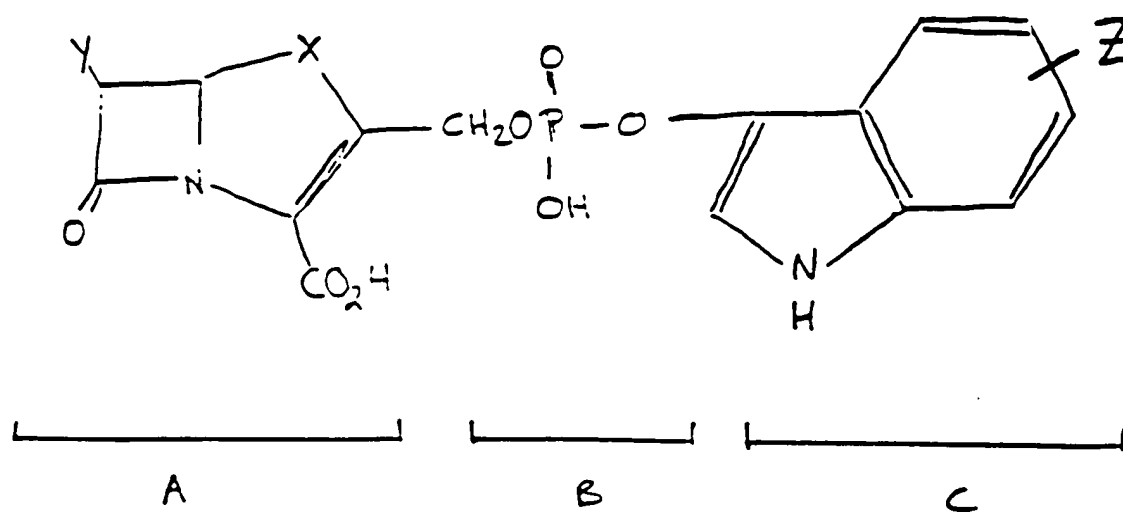
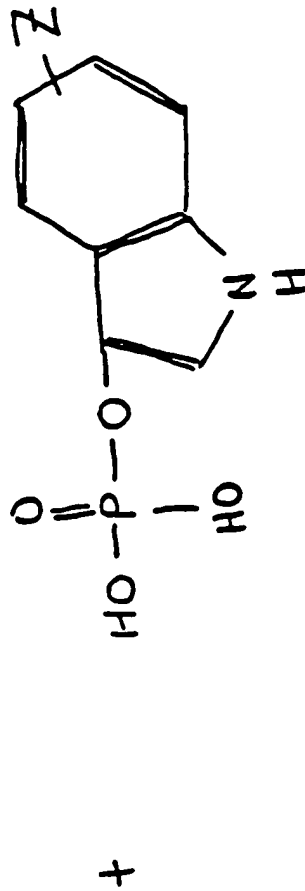
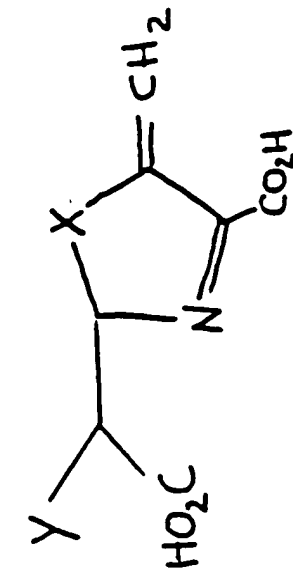
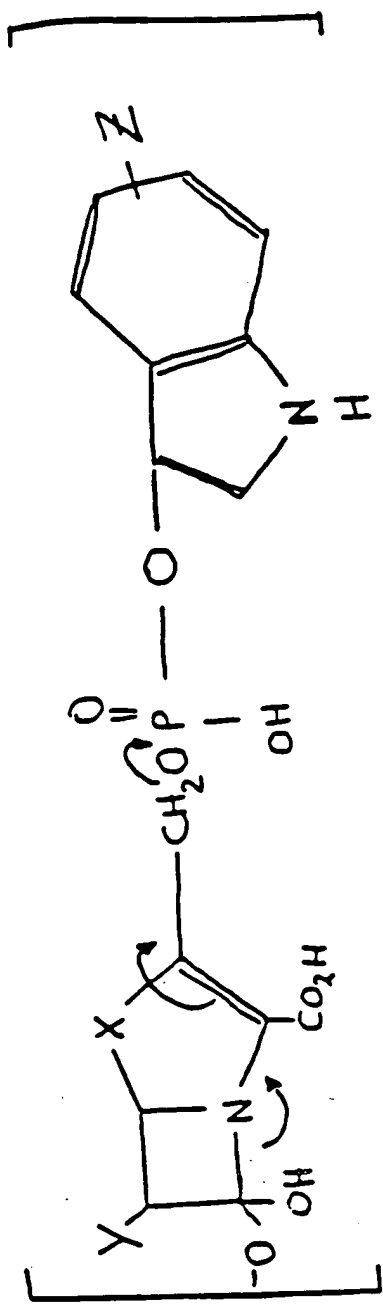


FIG. 12



ABC β -lactamase



resulting from the action of β -lactamase opening of the β -lactam and elimination

Indoxyl Phosphate

Indoxyl

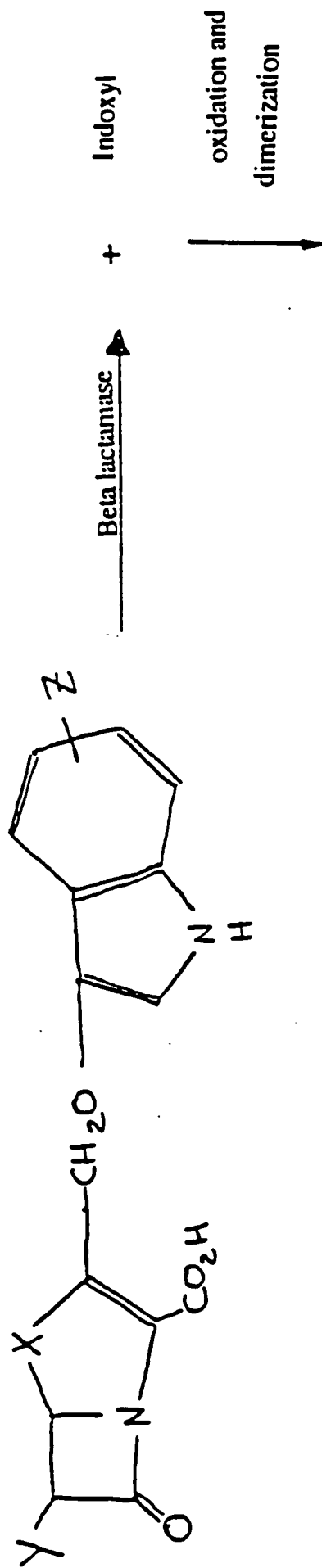
phosphatase

Indoxyl Phosphate

oxidation and dimerization

precipitate substituted indigo

FIG. 13



precipitate substituted indigo

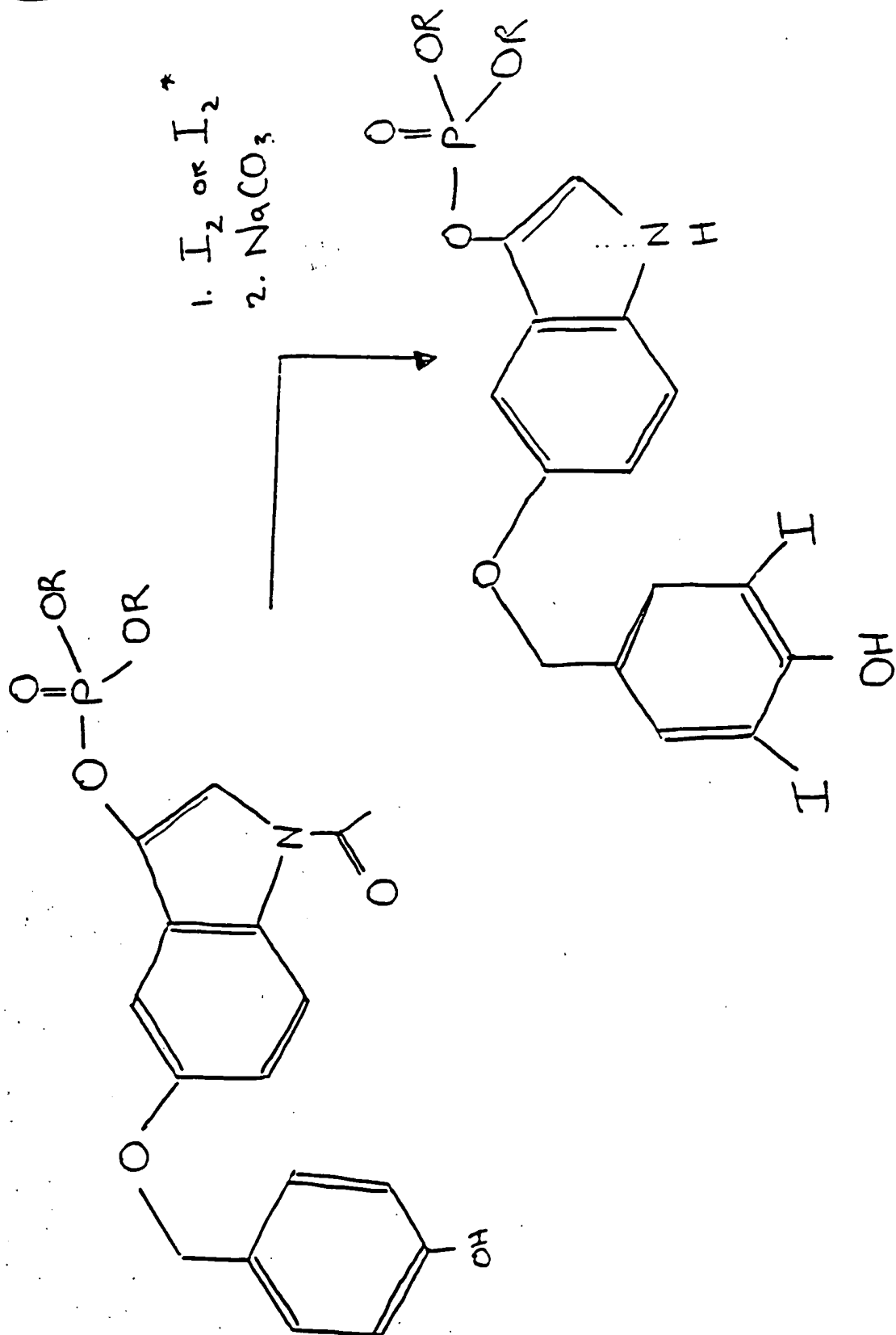


FIG. 15

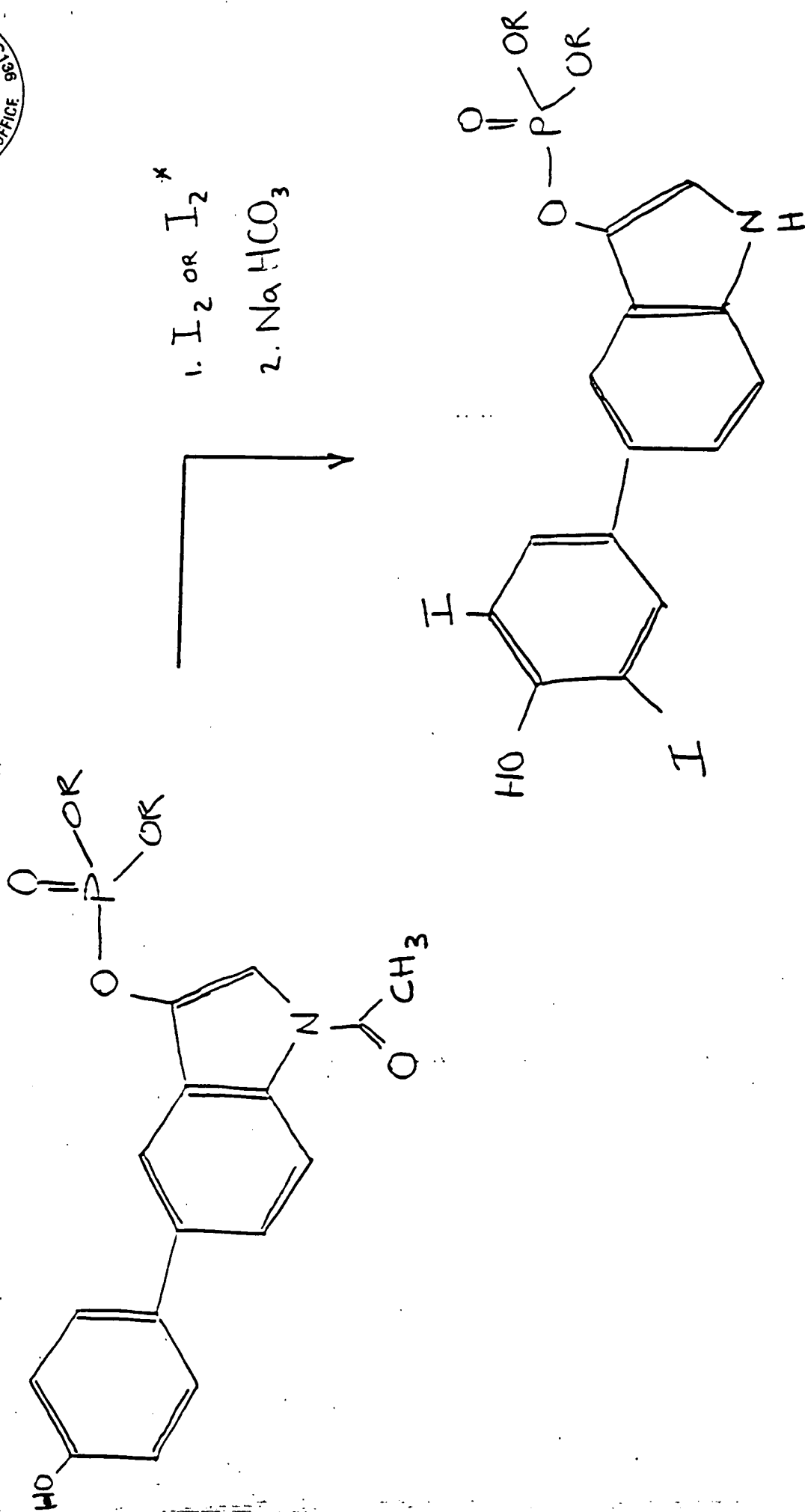
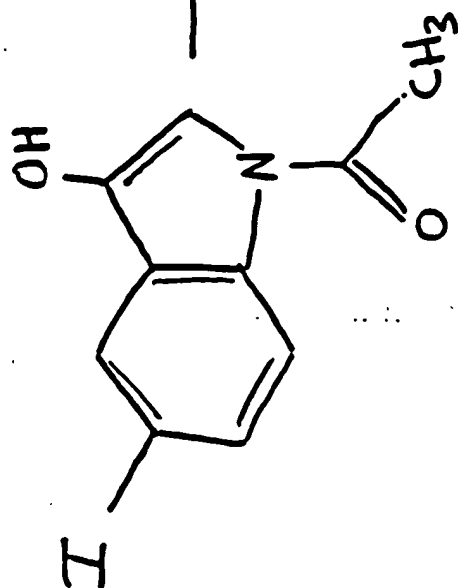
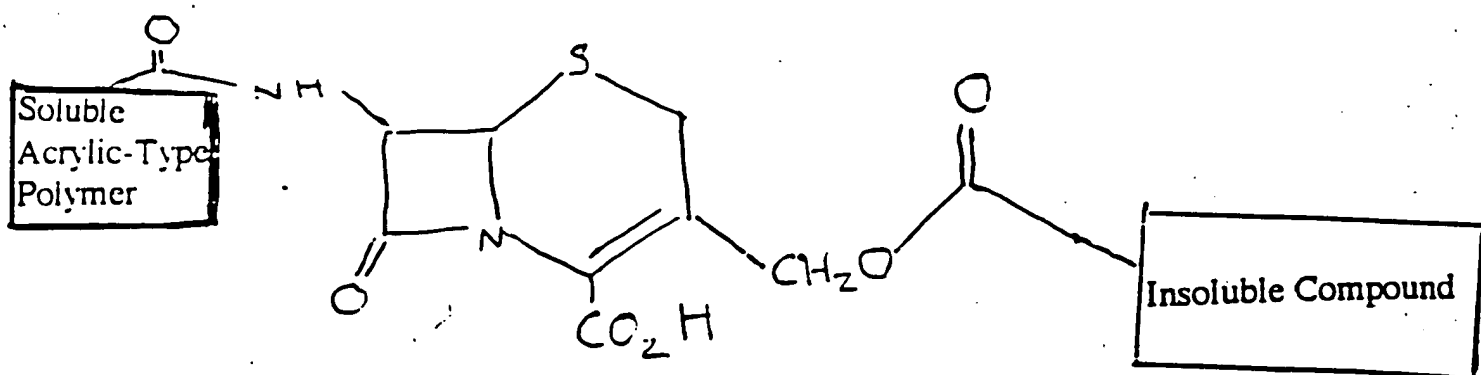


FIG. 16



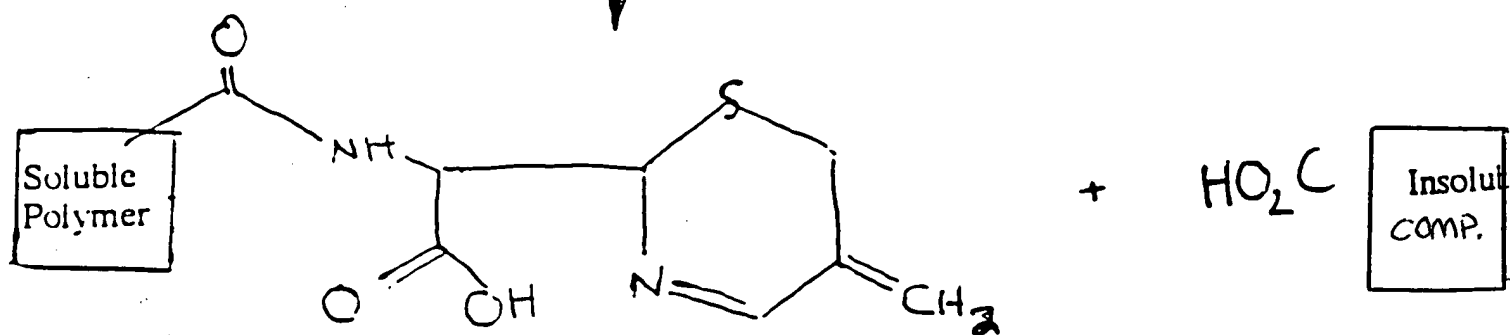
EXCHANGE WITH
RADIOACTIVE IODINE

FIG. 17



7-aminocephalosporanic acid

Beta Lactamase

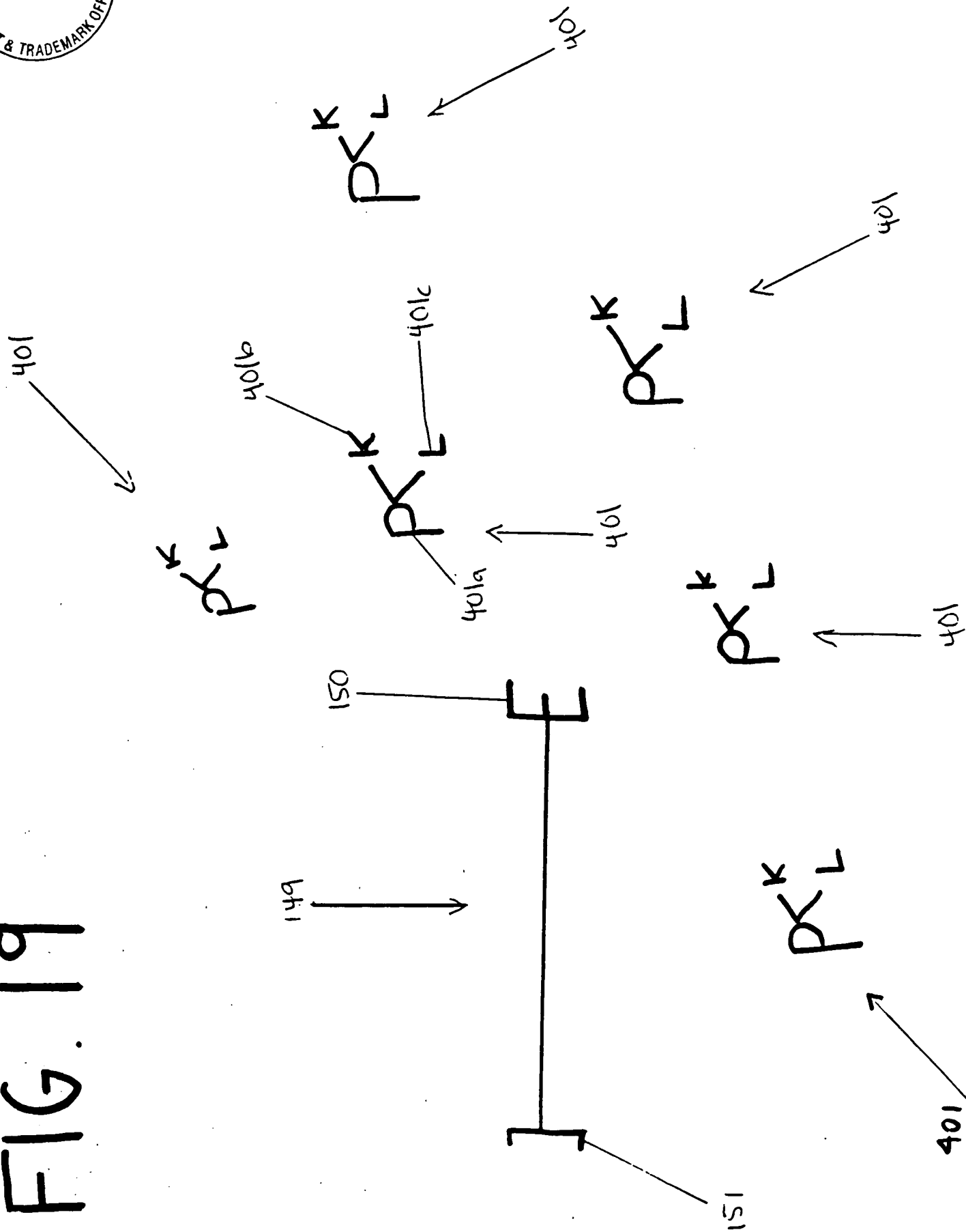


As shown the cephalosporin residue stays attached to the soluble polymer



FIG. 18

FIG. 19



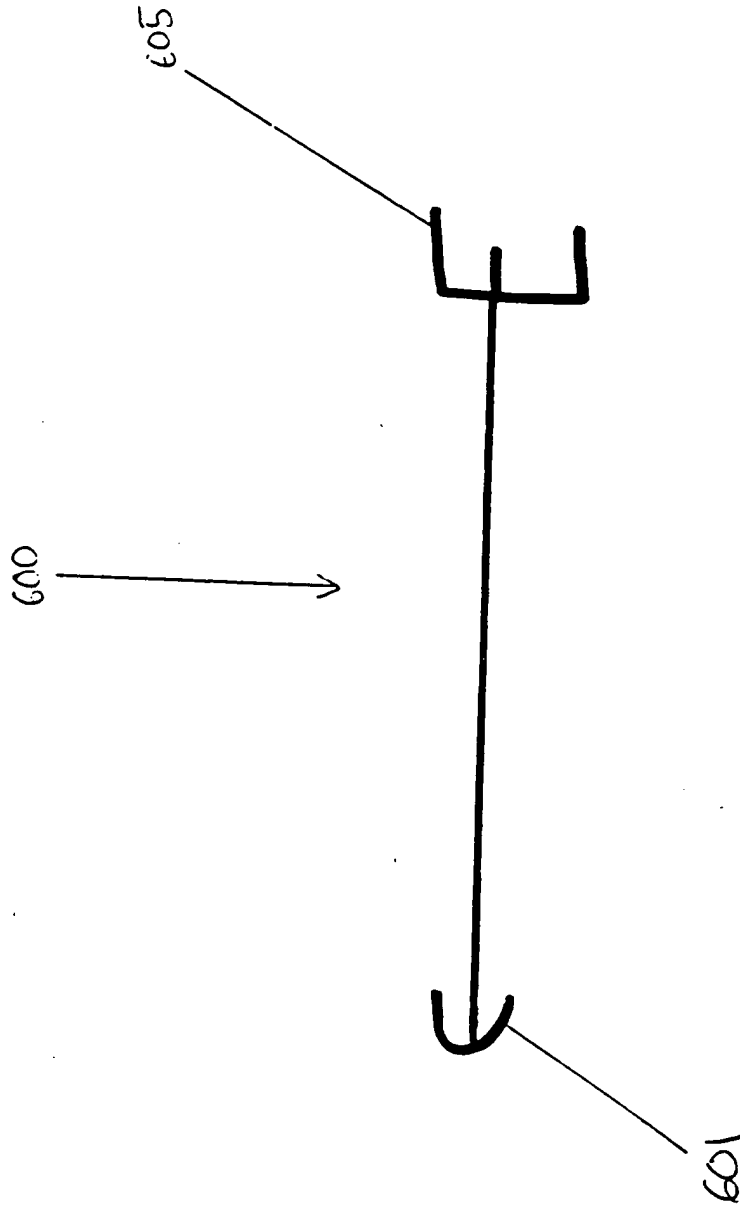


FIG. 20

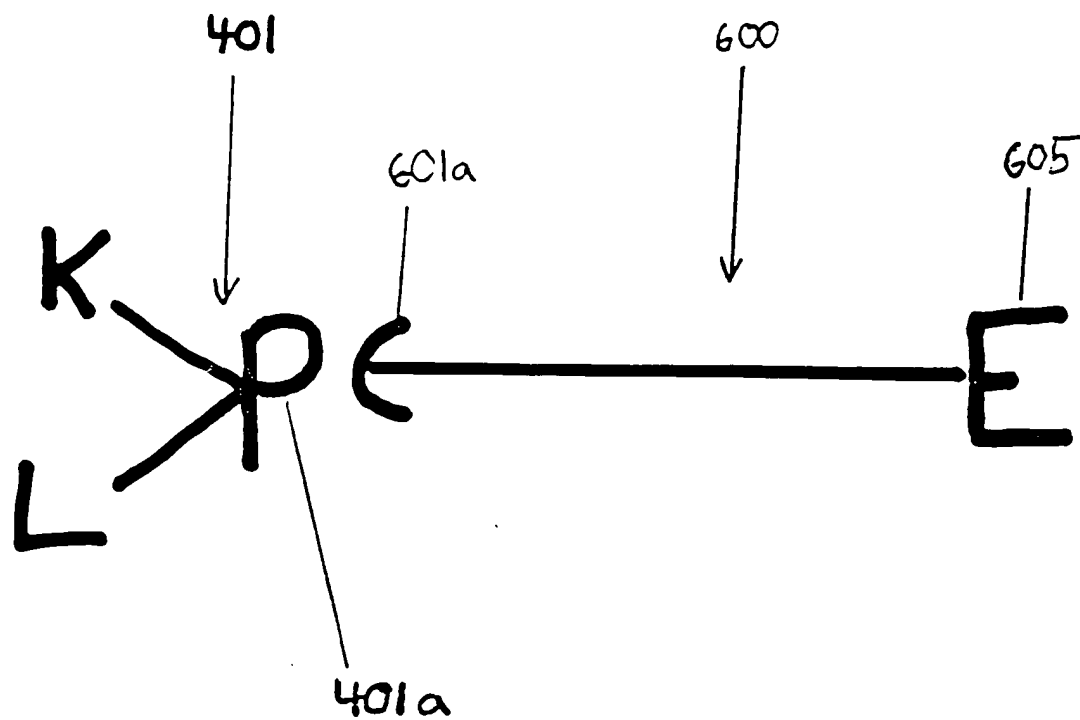


FIG. 21

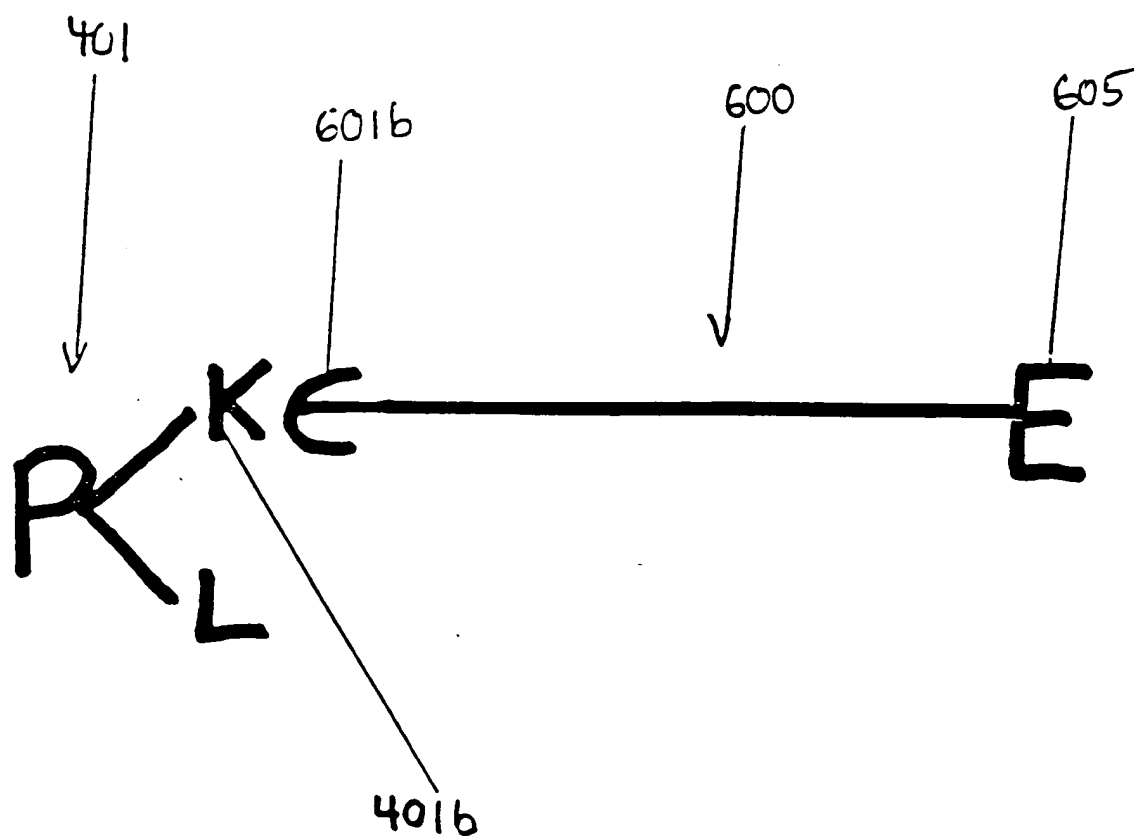


FIG. 22

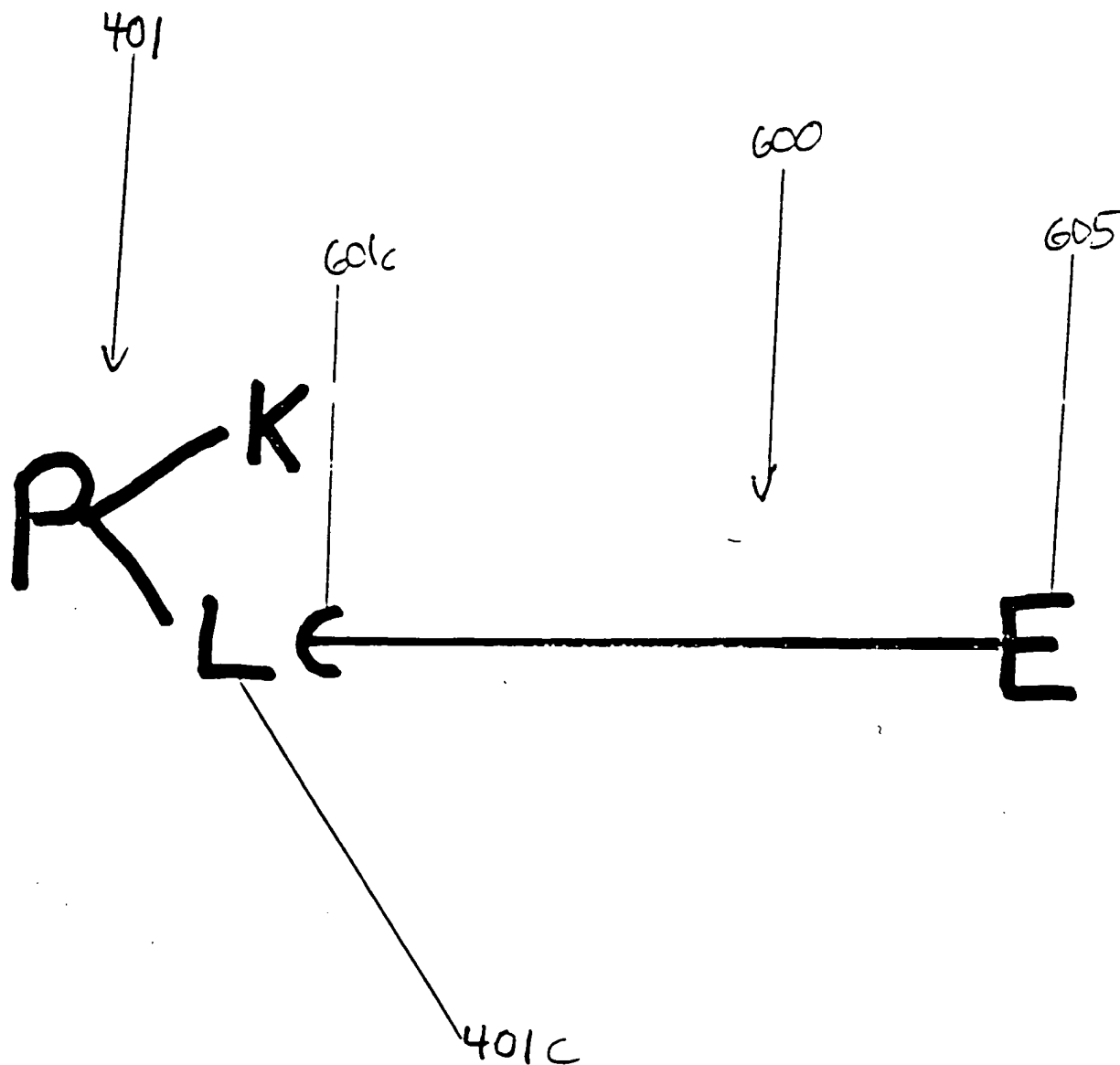


FIG. 23

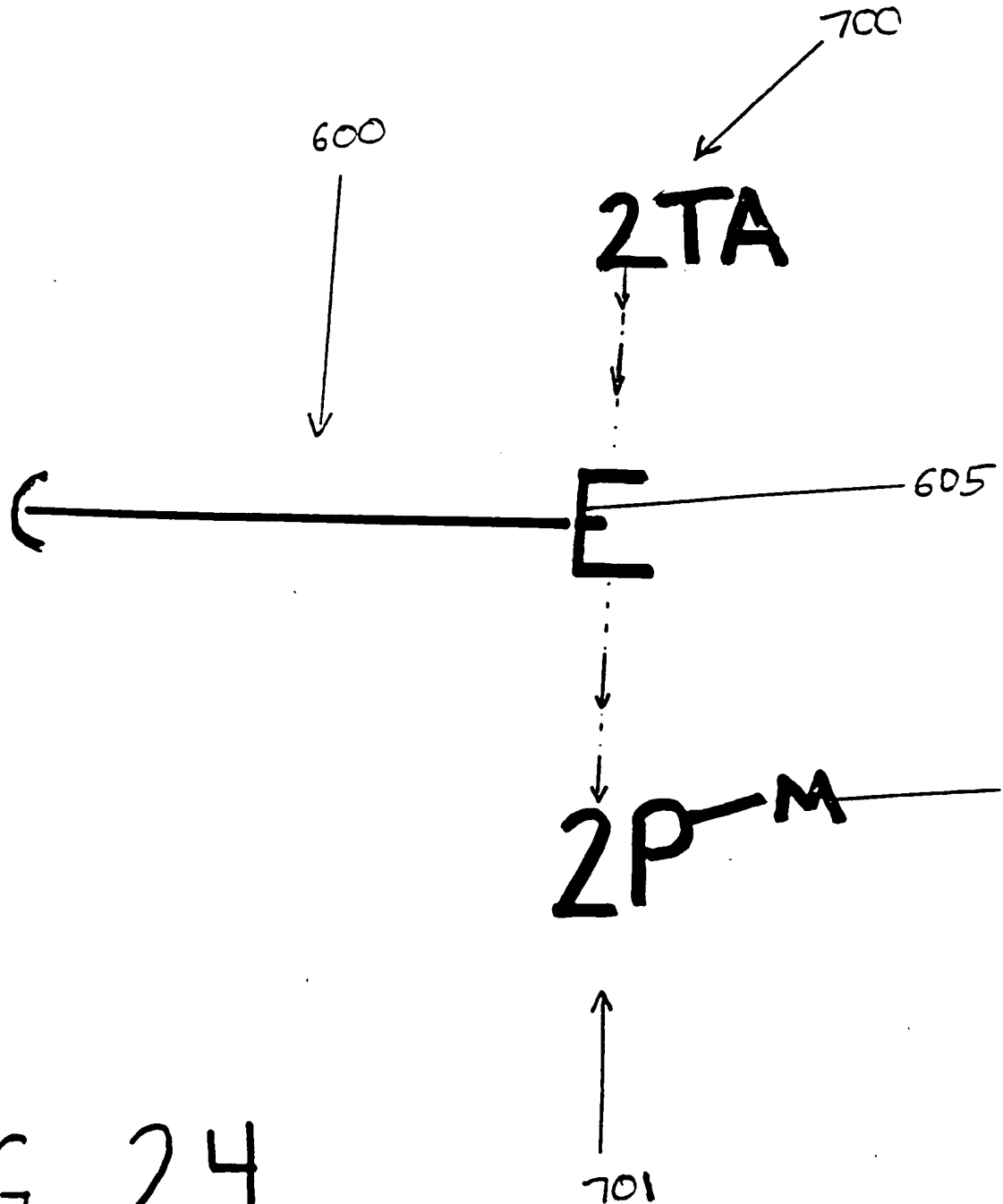


FIG. 24

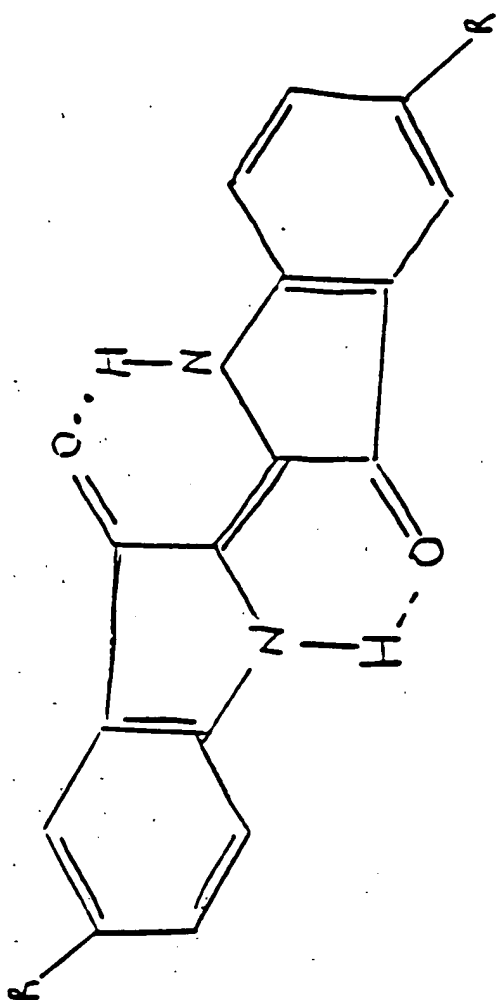


FIG. 25

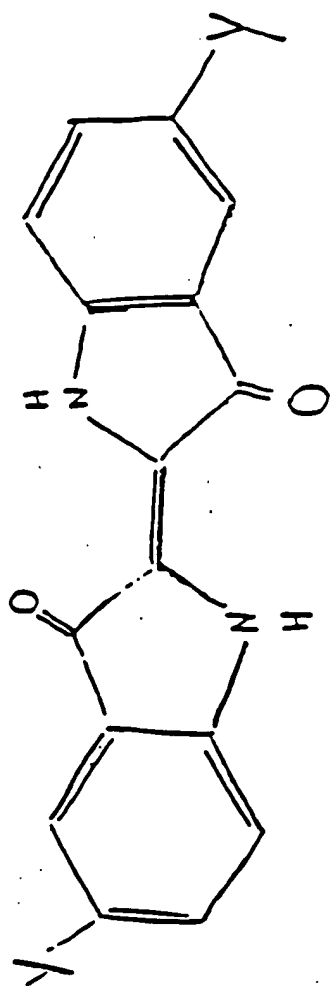


FIG. 26

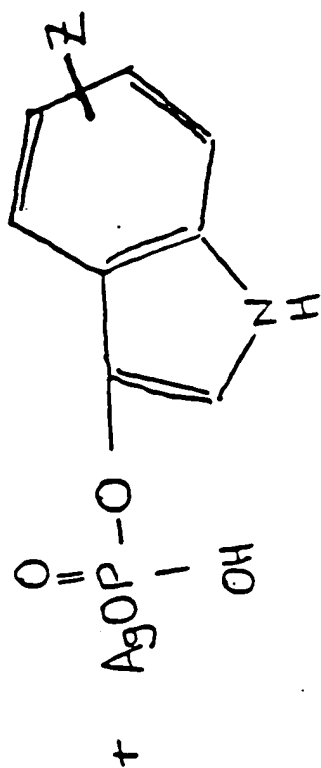
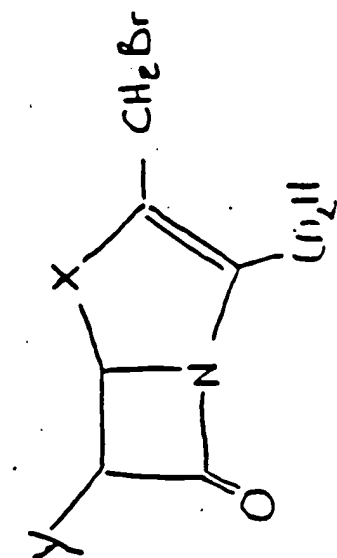


FIG. 27



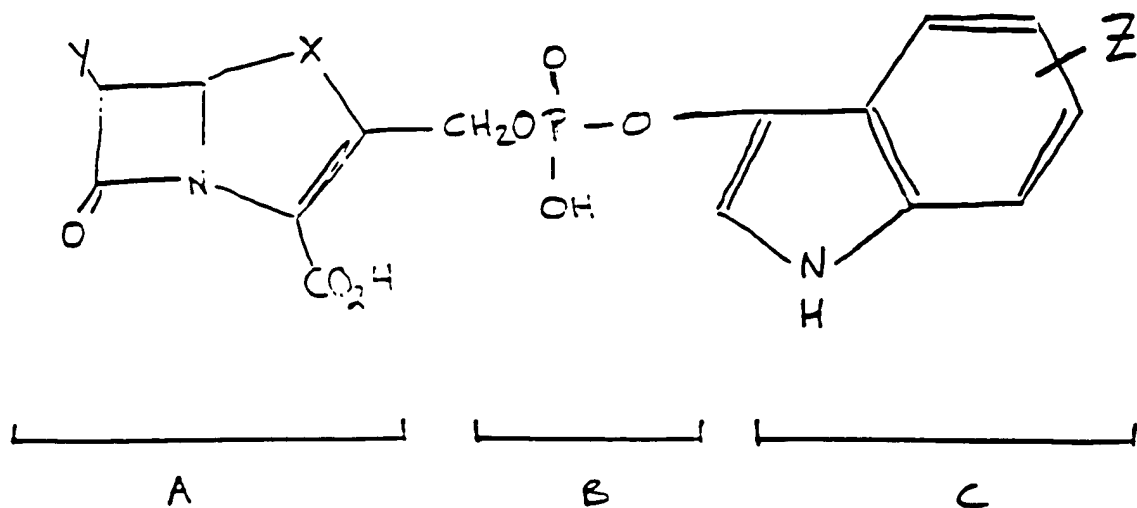
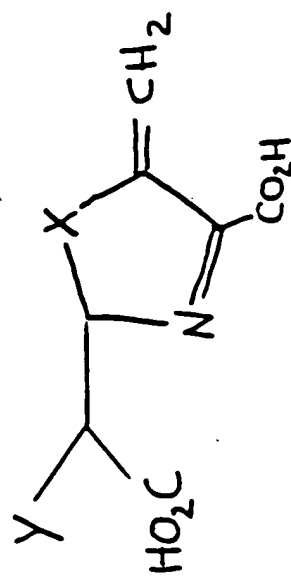
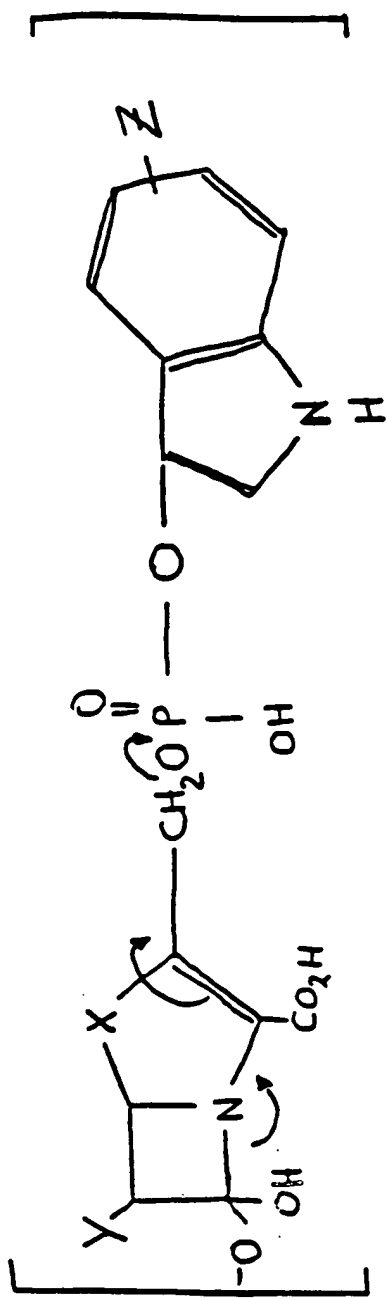
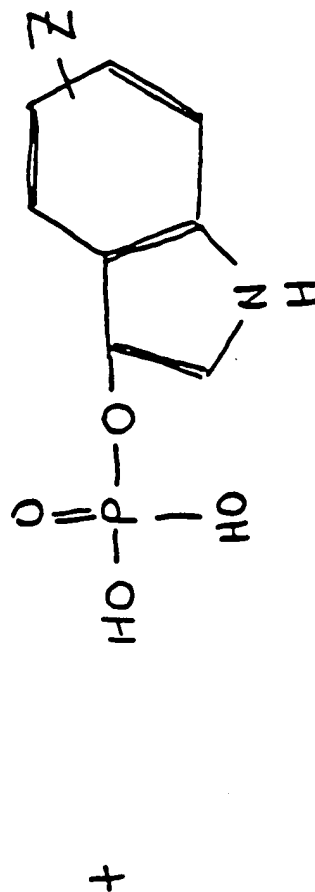


FIG. 28





resulting from the action of β -lactamase opening of the β -lactam and elimination



Indoxyl Phosphate

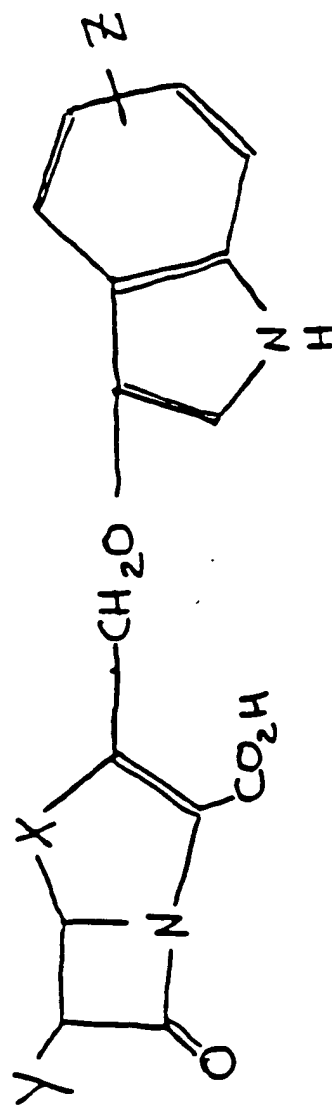
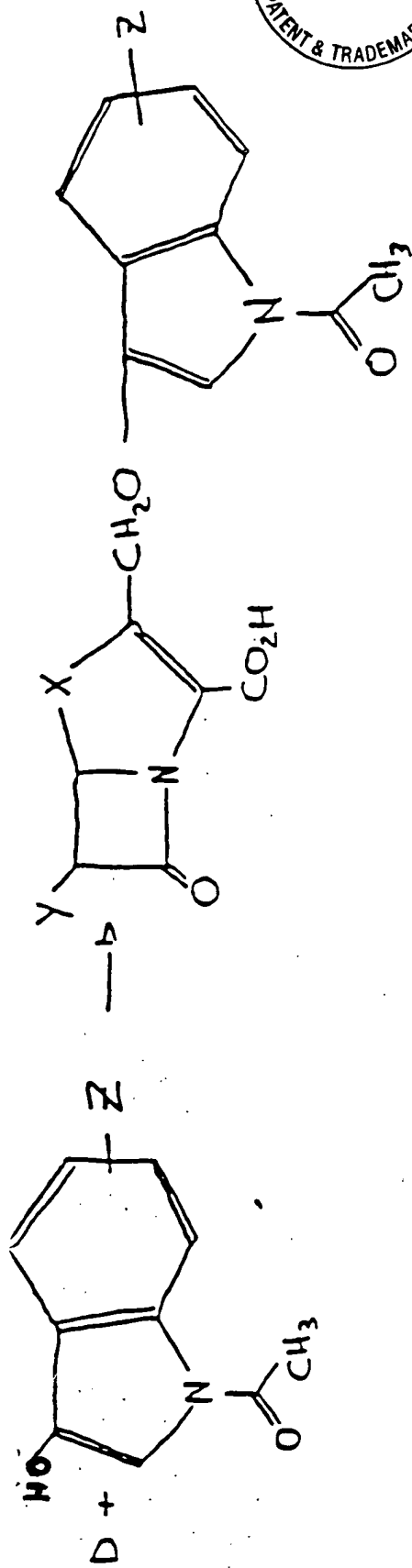
Indoxyl

phosphatase

Indoxyl Phosphate

oxidation and dimerization

FIG. 29

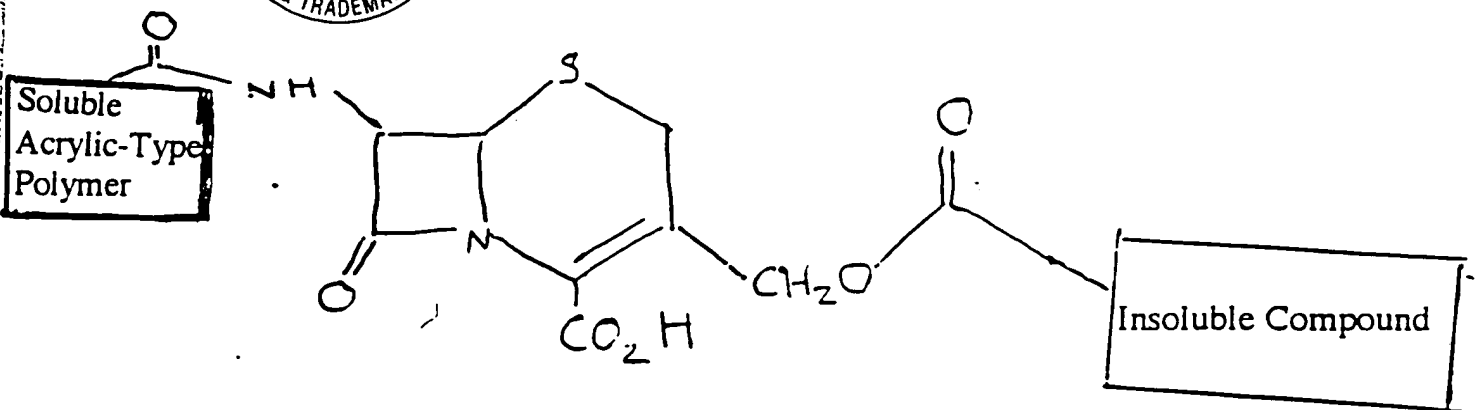


Indoxyl

oxidation and
dimerization

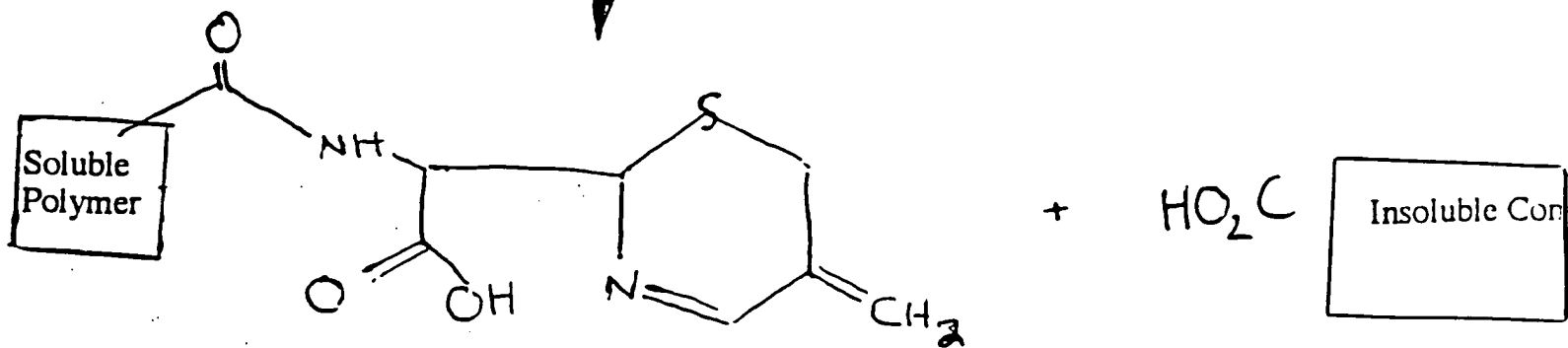
precipitate substituted indigo

FIG. 30



7-aminocephalosporanic acid

Beta Lactamase



As shown the cephalosporin residue stays attached to the soluble polymer

FIG. 31

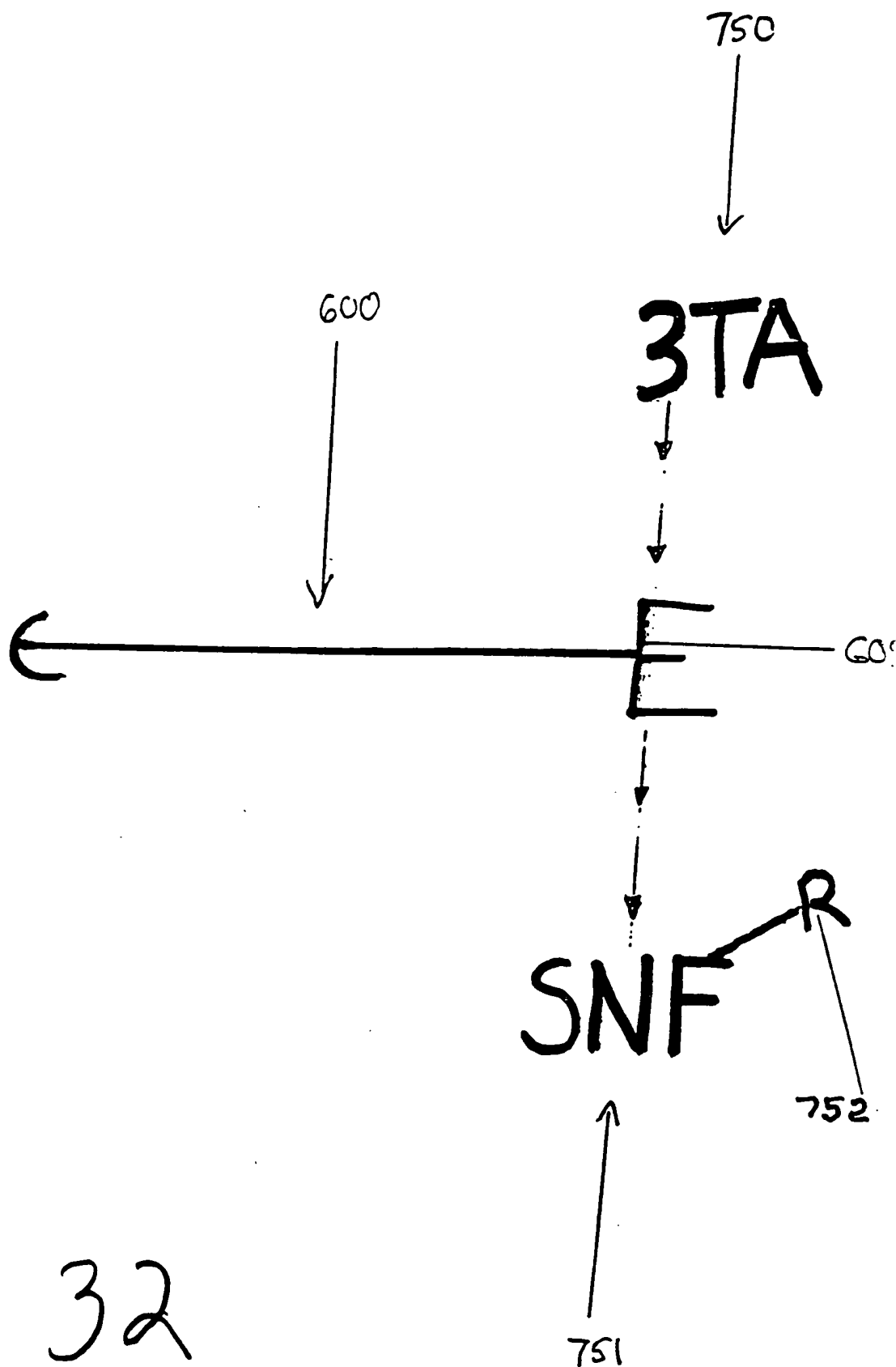


FIG. 32

New Form of Second Therapeutic Agent





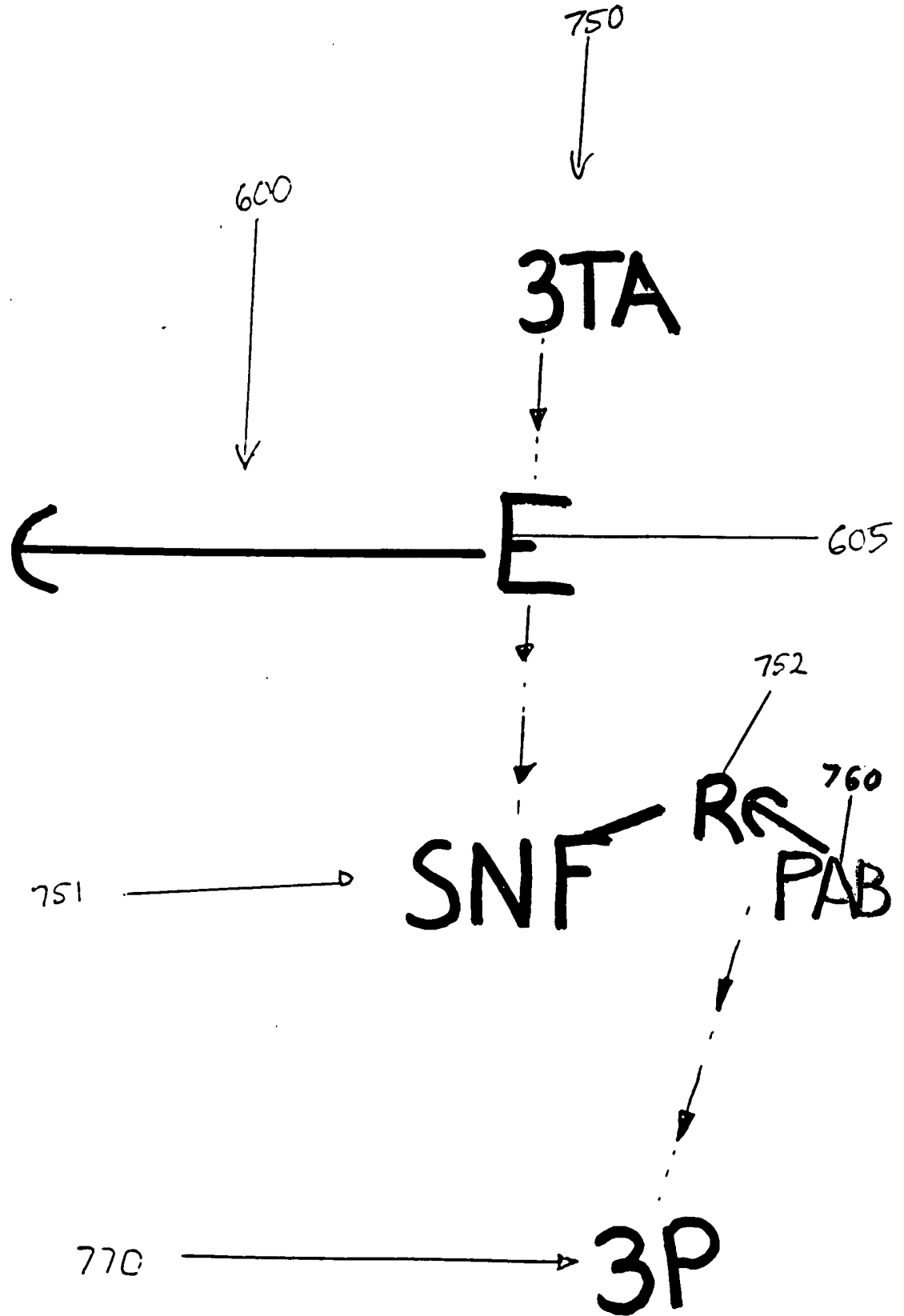


FIG. 34



300

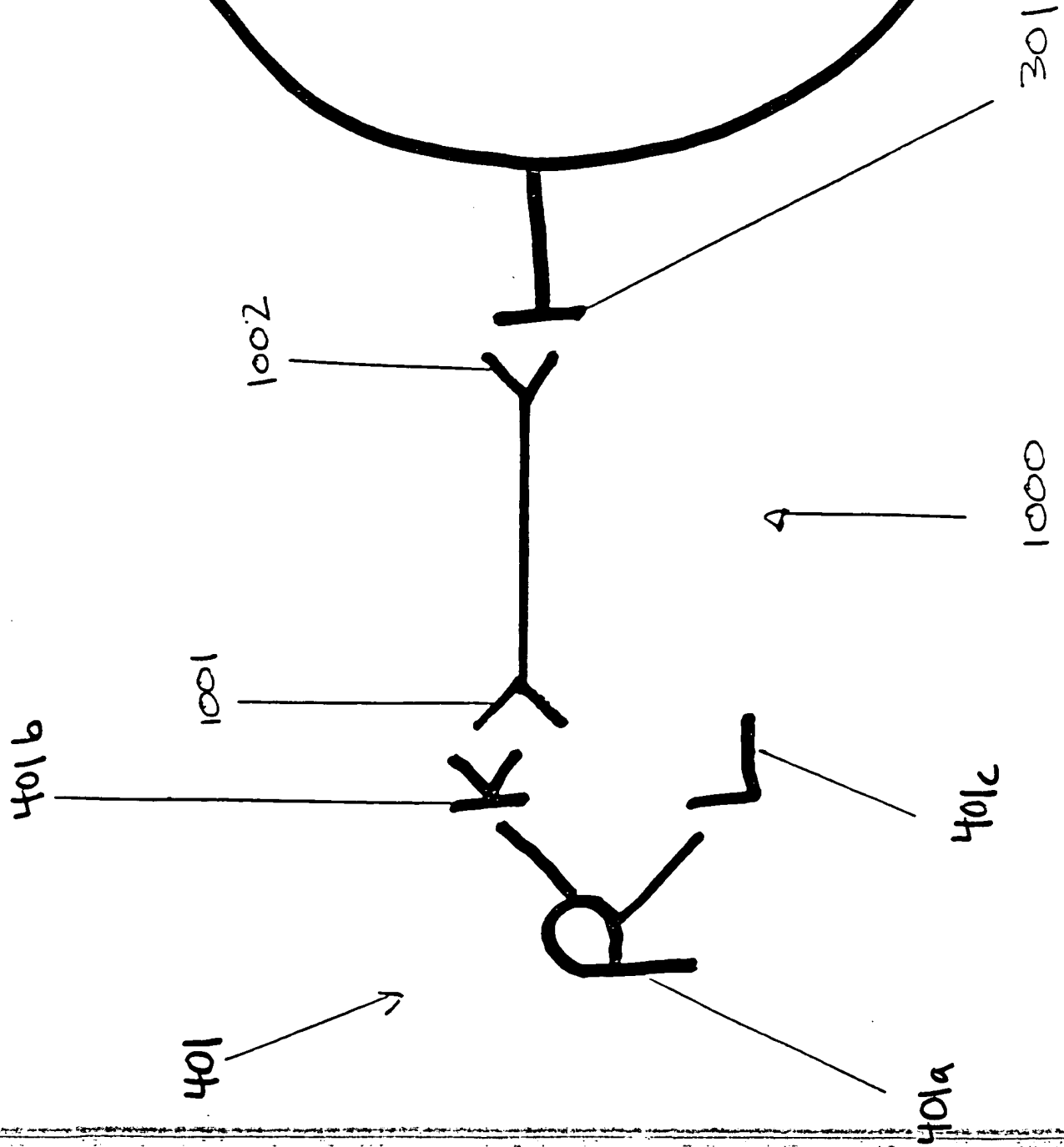


FIG. 35

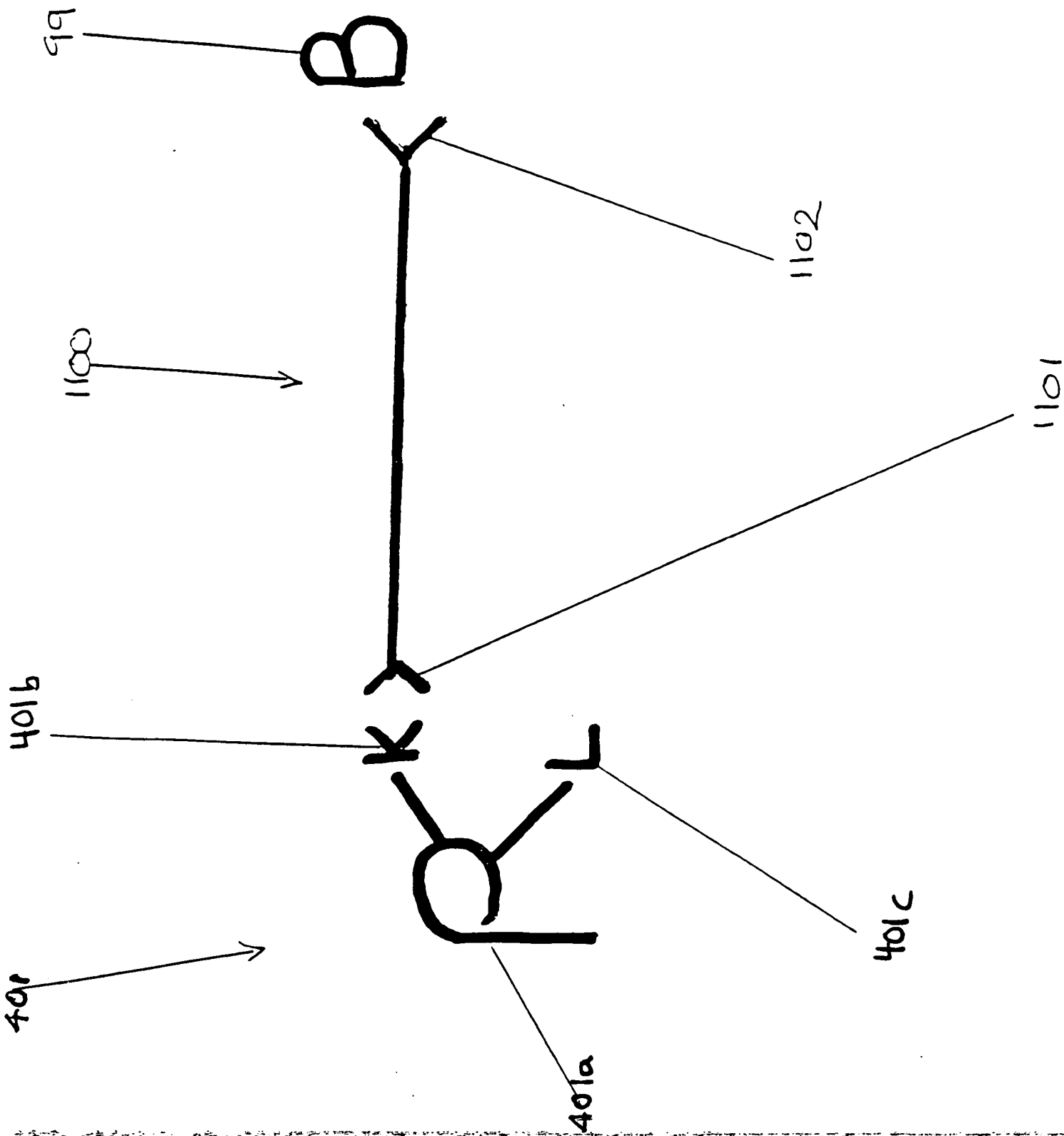


FIG. 36

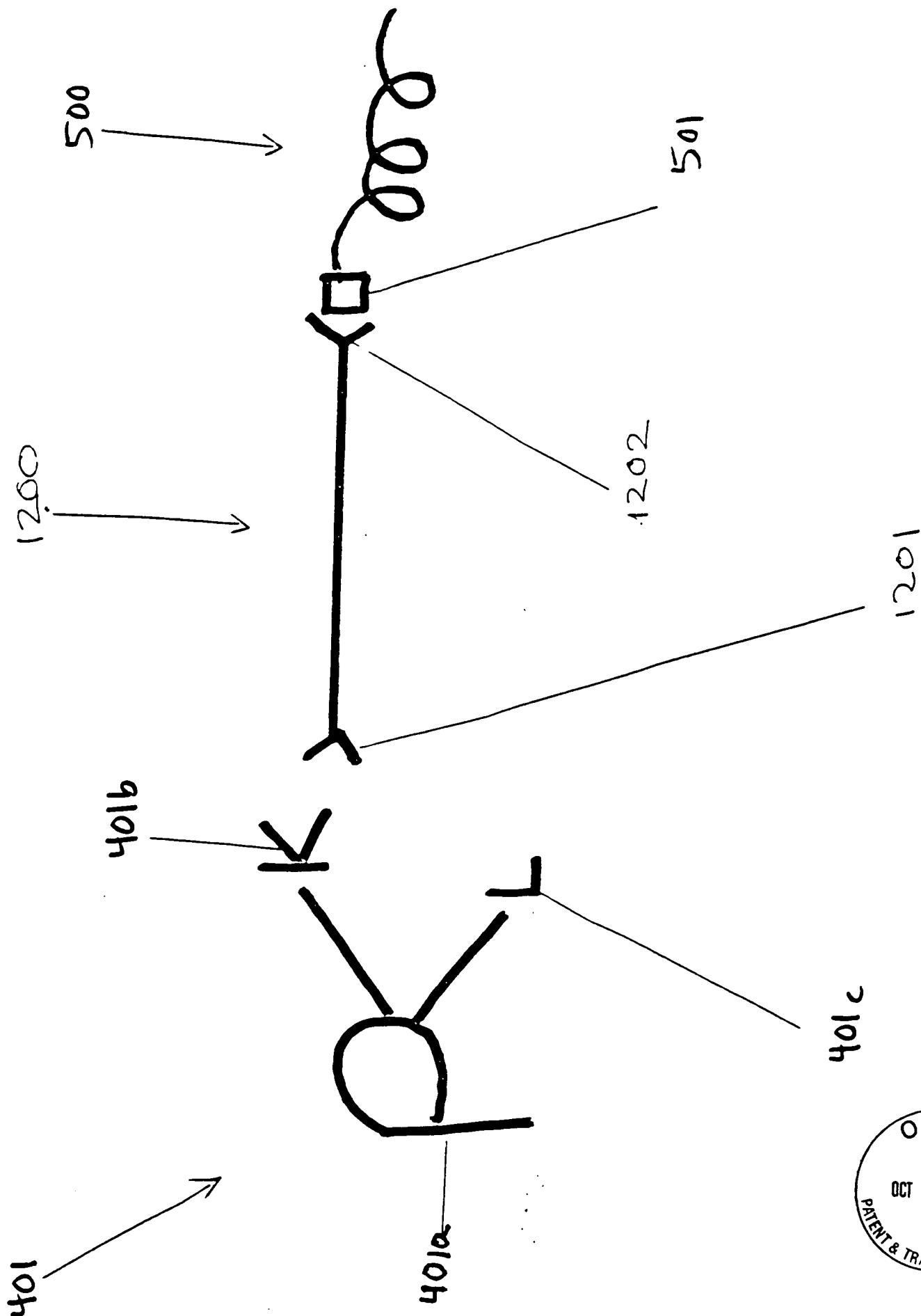


FIG. 37

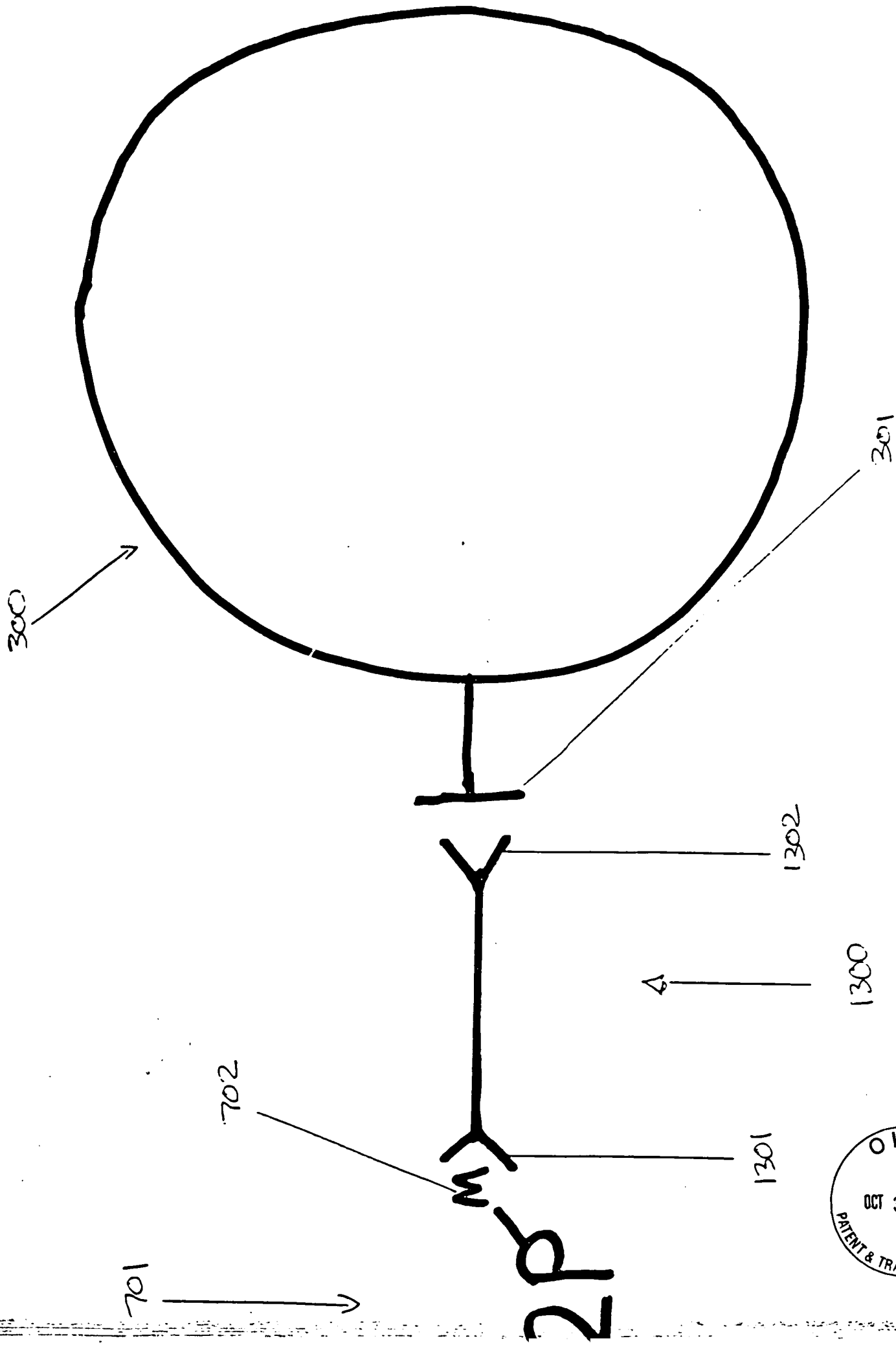


FIG. 38



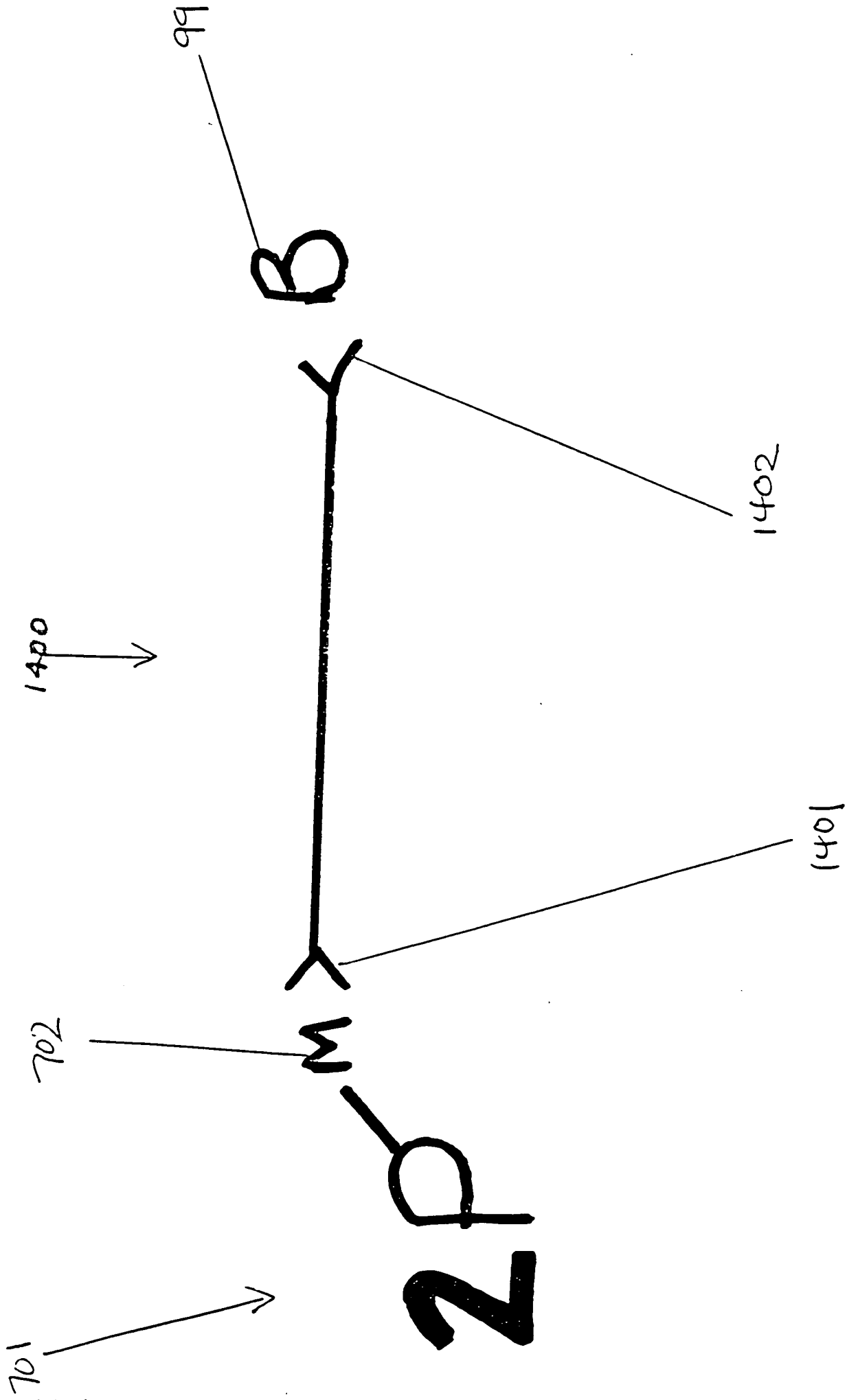


FIG. 39



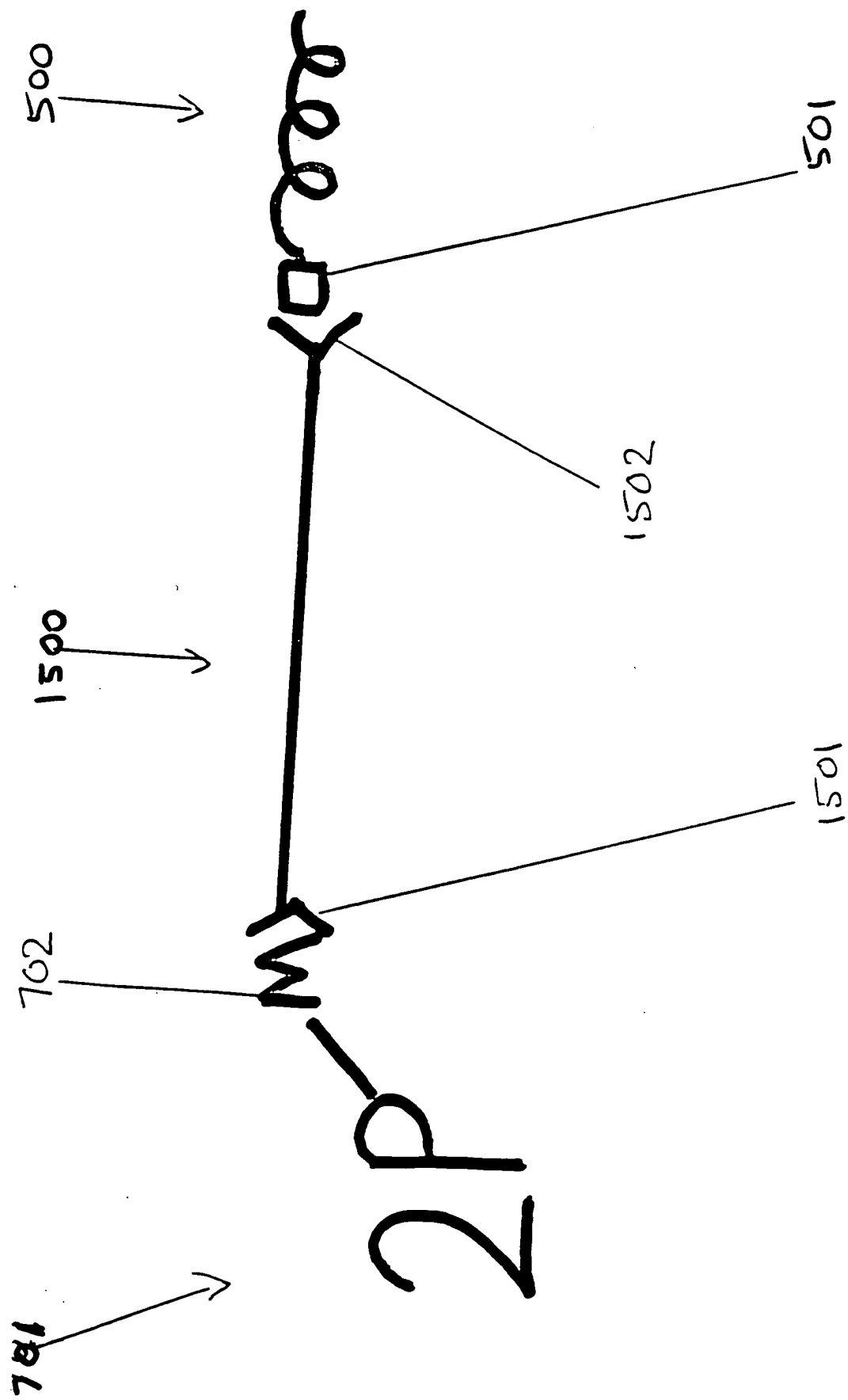


FIG. 40

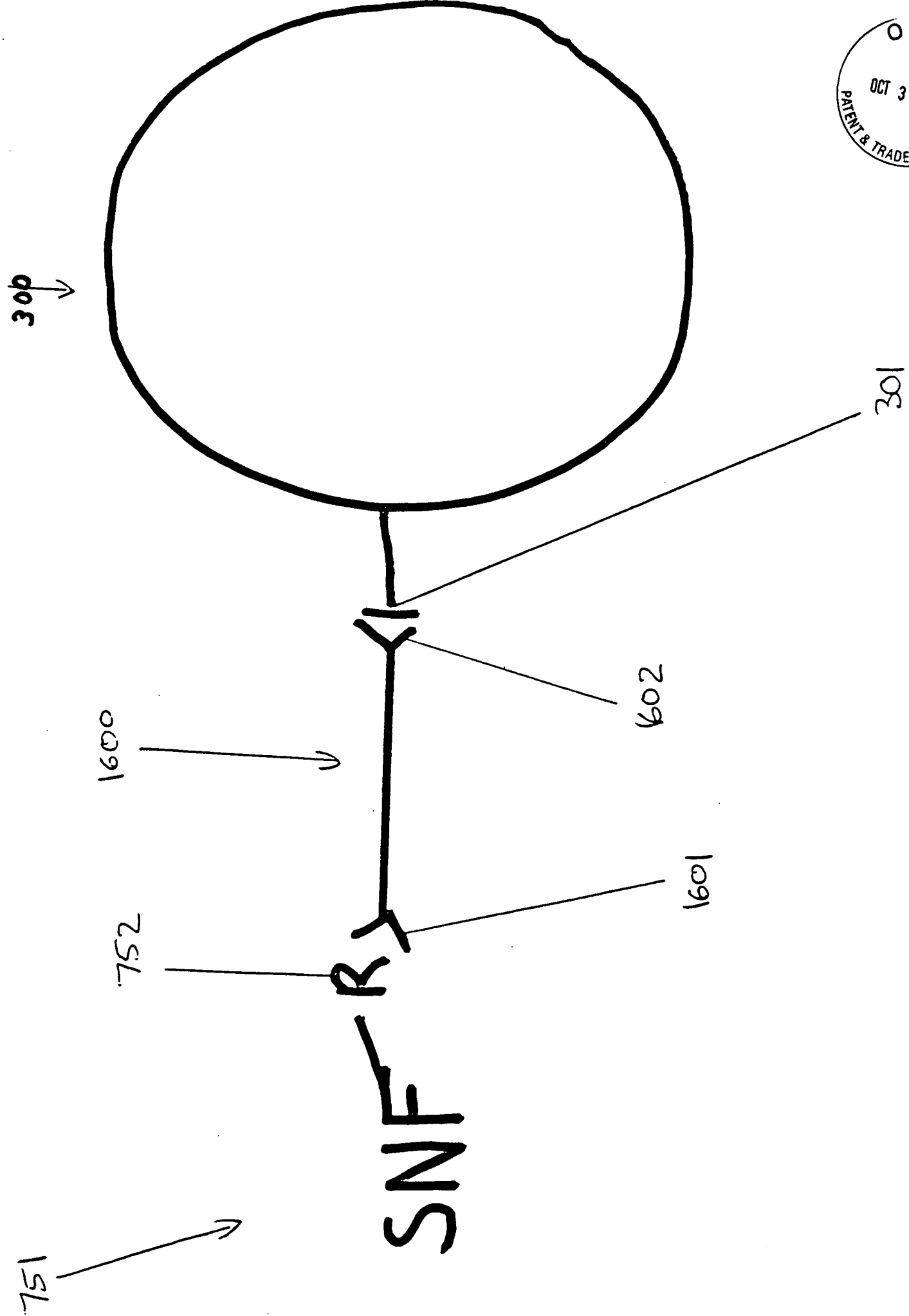


FIG. 41

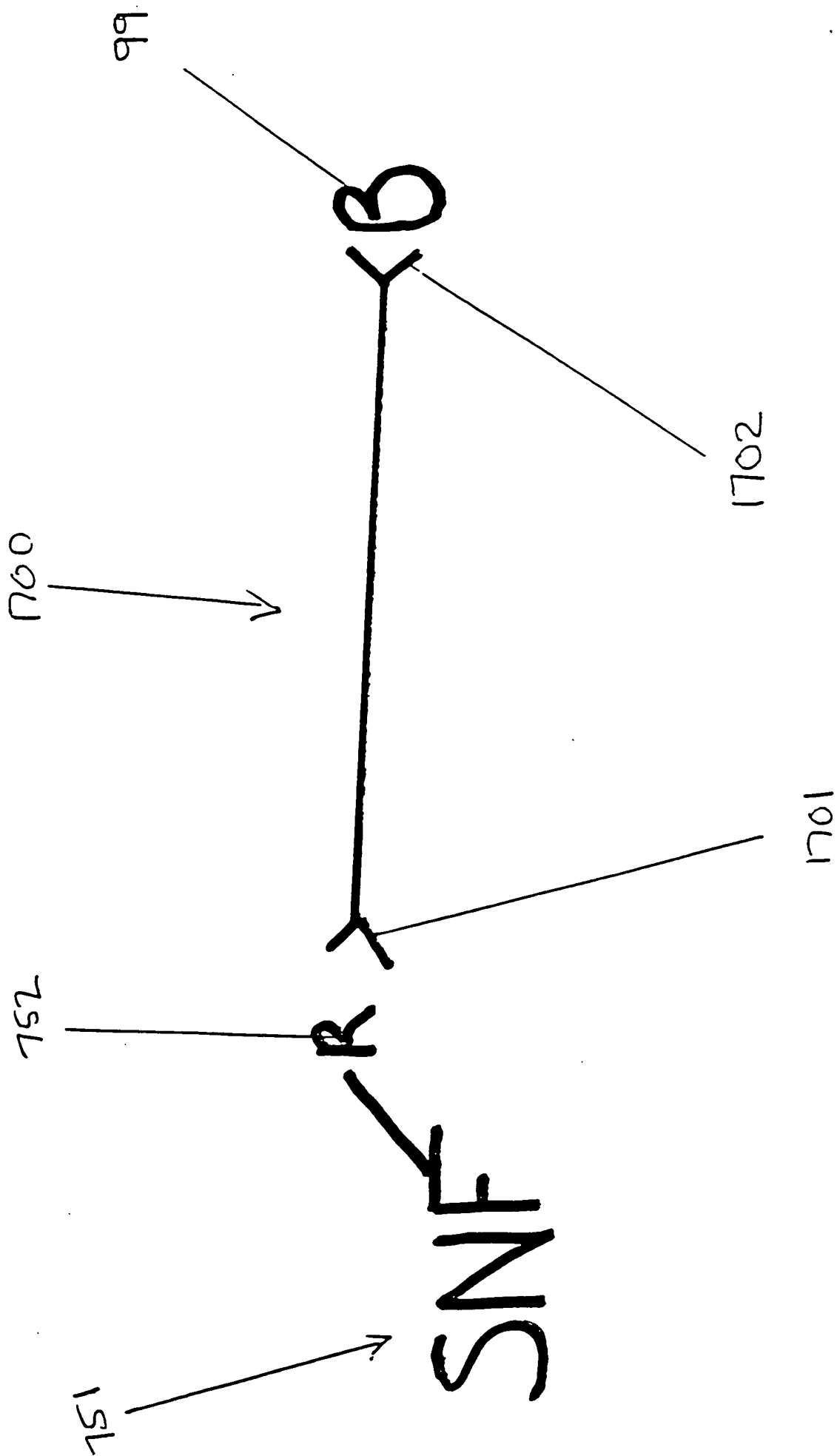


FIG. 42

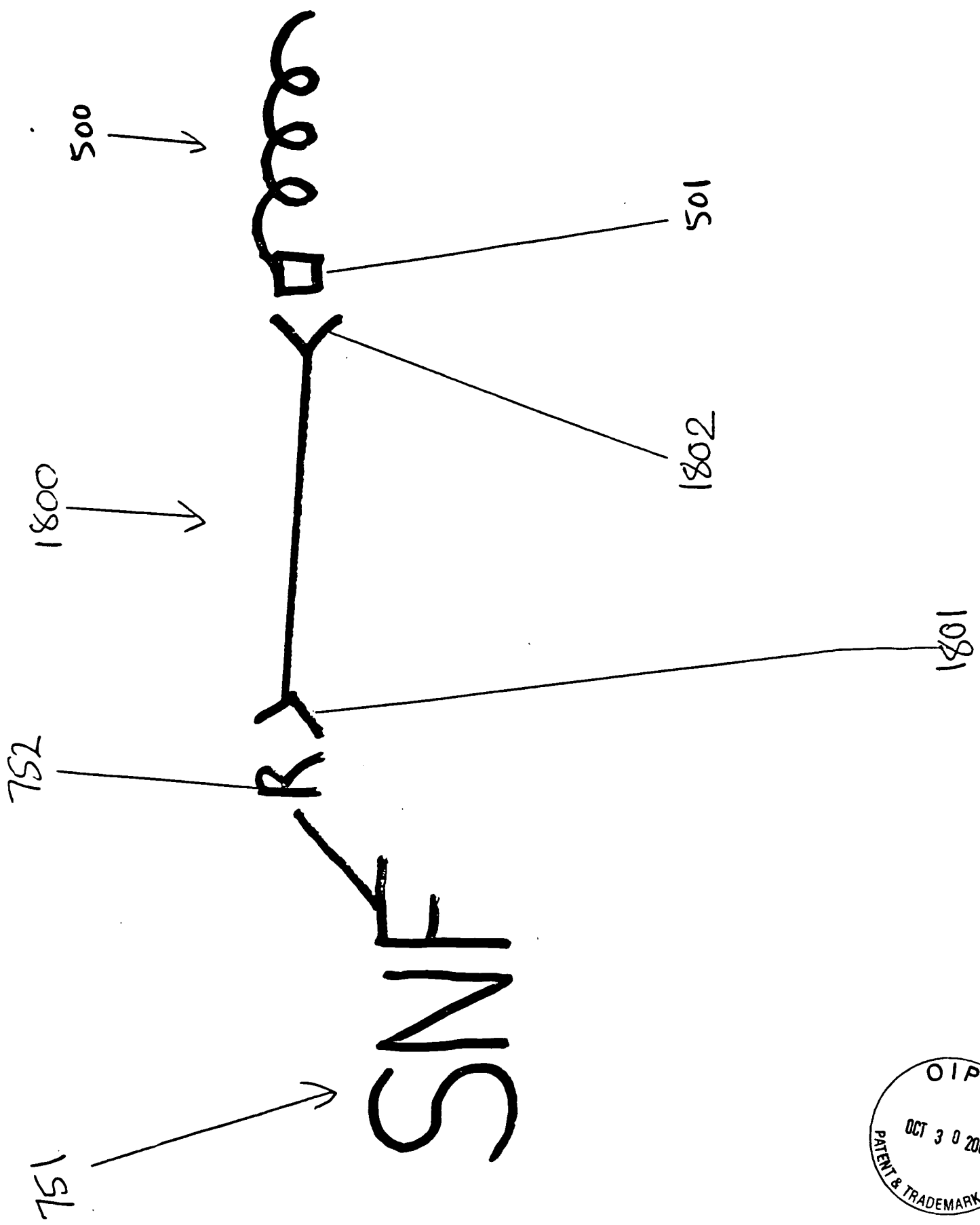


FIG. 43



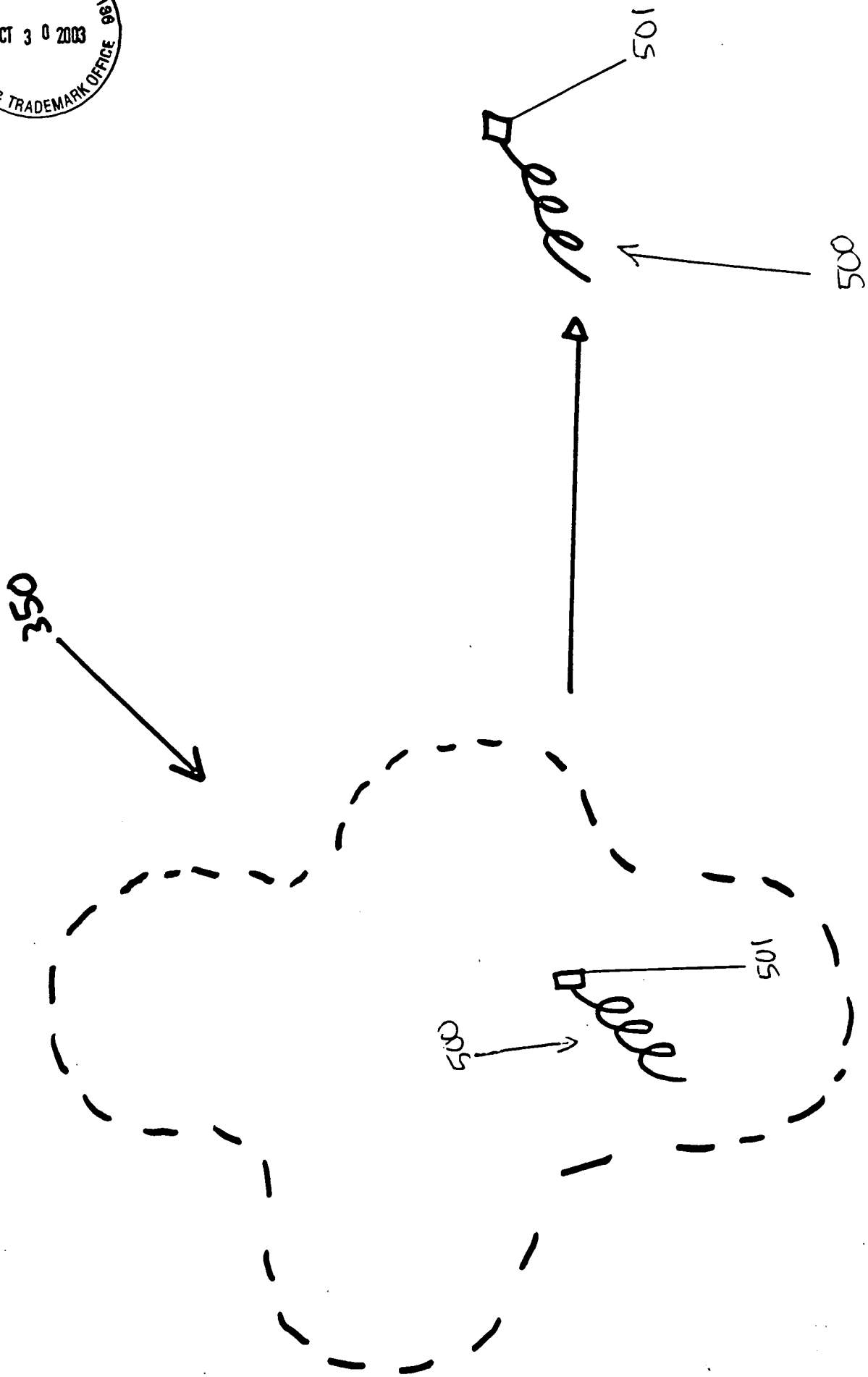


FIG. 44